

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Grace 3-16-3-3WH				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Wayne and Jan Hanberg						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-733-0116				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 64 Box 162, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		326 FNL 1488 FWL		NENW	16	3.0 S	3.0 W	U		
Top of Uppermost Producing Zone		660 FNL 1983 FWL		NENW	16	3.0 S	3.0 W	U		
At Total Depth		660 FSL 1986 FWL		SESW	16	3.0 S	3.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 326			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0			26. PROPOSED DEPTH MD: 13017 TVD: 8786				
27. ELEVATION - GROUND LEVEL 5390			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G	35	1.17	15.8
SURF	12.25	9.625	0 - 2500	36.0	J-55 ST&C	0.0	Premium Lite High Strength	204	3.53	11.0
							Class G	154	1.17	15.8
I1	8.75	7	0 - 9258	26.0	P-110 LT&C	10.5	Premium Lite High Strength	259	3.53	11.0
							50/50 Poz	415	1.24	14.3
PROD	6.125	4.5	8369 - 13167	13.5	P-110 LT&C	10.5	No Used	0	0.0	0.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN				
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER				
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP				
NAME Don Hamilton				TITLE Permitting Agent			PHONE 435 719-2018			
SIGNATURE				DATE 01/17/2012			EMAIL starpoint@etv.net			
API NUMBER ASSIGNED 43013511850000				APPROVAL Permit Manager						

Newfield Production Company**Grace 3-16-3-3WH****Surface Hole Location: 326' FNL, 1488' FWL, Section 16, T3S, R3W****Bottom Hole Location: 660' FSL, 1986' FWL, Section 16, T3S, R3W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface
Green River	3,642'
Garden Gulch member	6,281'
Wasatch	9,098'
Pilot Hole TD	9,400'
Lateral TD	8,786' TVD / 13,167' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	1,050'	(water)
Green River	6,281' - 8,786'	(oil)

Note: The pilot hole will be drilled into the Wasatch formation for evaluation and targeting purposes only. The lateral will be drilled in the Green River formation.

3. Pressure Control**Section BOP Description**

Surface 12-1/4" diverter

Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coupl	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
									2.51	2.54	5.03
Intermediate 7	0'	8,940'	26	P-110	BTC	10	10.5	15	9,960	6,210	830,000
		9,258'							2.65	1.56	3.45
Production 4 1/2	8,369'	8,786'	13.5	P-110	BTC	10	10.5	--	12,410	10,670	422,000
		13,167'							3.36	2.72	6.52

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41	15%	15.8	1.17
				35			
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720	15%	11.0	3.53
				204			
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180	15%	15.8	1.17
				154			
Pilot Hole Plug Back	8 3/4	1,016'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	488	15%	14.3	1.24
				394			
Intermediate Lead	8 3/4	5,281'	Premium Lite II w/ 3% KCl + 10% bentonite	913	15%	11.0	3.53
				259			
Intermediate Tail	8 3/4	2,977'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	515	15%	14.3	1.24
				415			
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the pilot hole plug back and the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
-----------------	--------------------

Surface - 2,500'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

2,500' - TD A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from PBTD to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.52 psi/ft gradient.

$$8,786' \times 0.52 \text{ psi/ft} = 4569 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

An 8-3/4" pilot hole will be drilled in order to determine the depth to the lateral target zone. The pilot hole will be logged, and then plugged back in preparation for horizontal operations. Directional tools will then be used to build to 92.24 degrees inclination. The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat. A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer.

T3S, R3W, U.S.B.&M.

S89°50'W

NEWFIELD EXPLORATION COMPANYMetal Rod
in Road

S89°30'W - 80.16 (G.L.O.)

20.00 (G.L.O.)

S89°01'42"W

1319.85' (Meas.)

S88°41'39"W - 3970.16' (Meas.)

1488'

1983'
(Comp)

326'

660'

S57°14'46"E

595.88'

Top of
Producing
IntervalN88°46'19"E
1321.82' (Meas.)1994 BLM
Aluminum Cap1994 BLM
Aluminum Cap

1333.07' (Meas.)

N00°54'37"W

1919 BLM
Brass Cap1919 BLM
Brass Cap

N00°55'55"W - 2657.51' (Meas.)

N00°55'55"W - 2657.51' (Meas.)

N00°07'W - 80.41 (G.L.O.)

N00°56'19"W - 2657.48' (Meas.)

N00°56'19"W - 2657.48' (Meas.)

N00°56'19"W - 2657.48' (Meas.)

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N00°56'19"W - 2657.48' (Meas.)

N00°56'19"W - 2657.48' (Meas.)

PLS Cap
Marked 14895
on Rebar**WELL LOCATION:
3-16-3-3WH**

ELEV. UNGRADED GROUND = 5390.3'

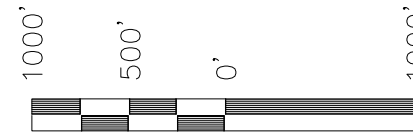
Bottom
of HoleReestablished
Using Corner Tie
From Duchesne
County Surveyor2008 County
Alum. Cap

S89°02'47"W - 2639.23' (Meas.)

S89°36'W - 79.89 (G.L.O.)



= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on
an N.G.S. OPUS Correction. LOCATION:
LAT. 40°04'09.56" LONG. 110°00'43.28"
(Tristate Aluminum Cap) Elev. 5281.57'**3-16-3-3WH**
(Surface Location) NAD 83
LATITUDE = 40° 13' 41.83"
LONGITUDE = 110° 13' 55.23"WELL LOCATION, 3-16-3-3WH, LOCATED
AS SHOWN IN THE NE 1/4 NW 1/4 OF
SECTION 16, T3S, R3W, DUCHESNE
COUNTY, UTAH.TARGET BOTTOM HOLE, 3-16-3-3WH,
LOCATED AS SHOWN IN THE SE 1/4
SW 1/4 OF SECTION 16, T3S, R3W,
U.S.B.&M. DUCHESNE COUNTY, UTAH.

BAR SCALE

NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Top of Hole bears S78°55'33"E 1521.81' from the Northwest Corner.
4. The Bottom of Hole bears N45°54'31"W 925.69' from the South 1/4 Corner.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST
OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
12-15-11
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 10837
STATE OF UTAH

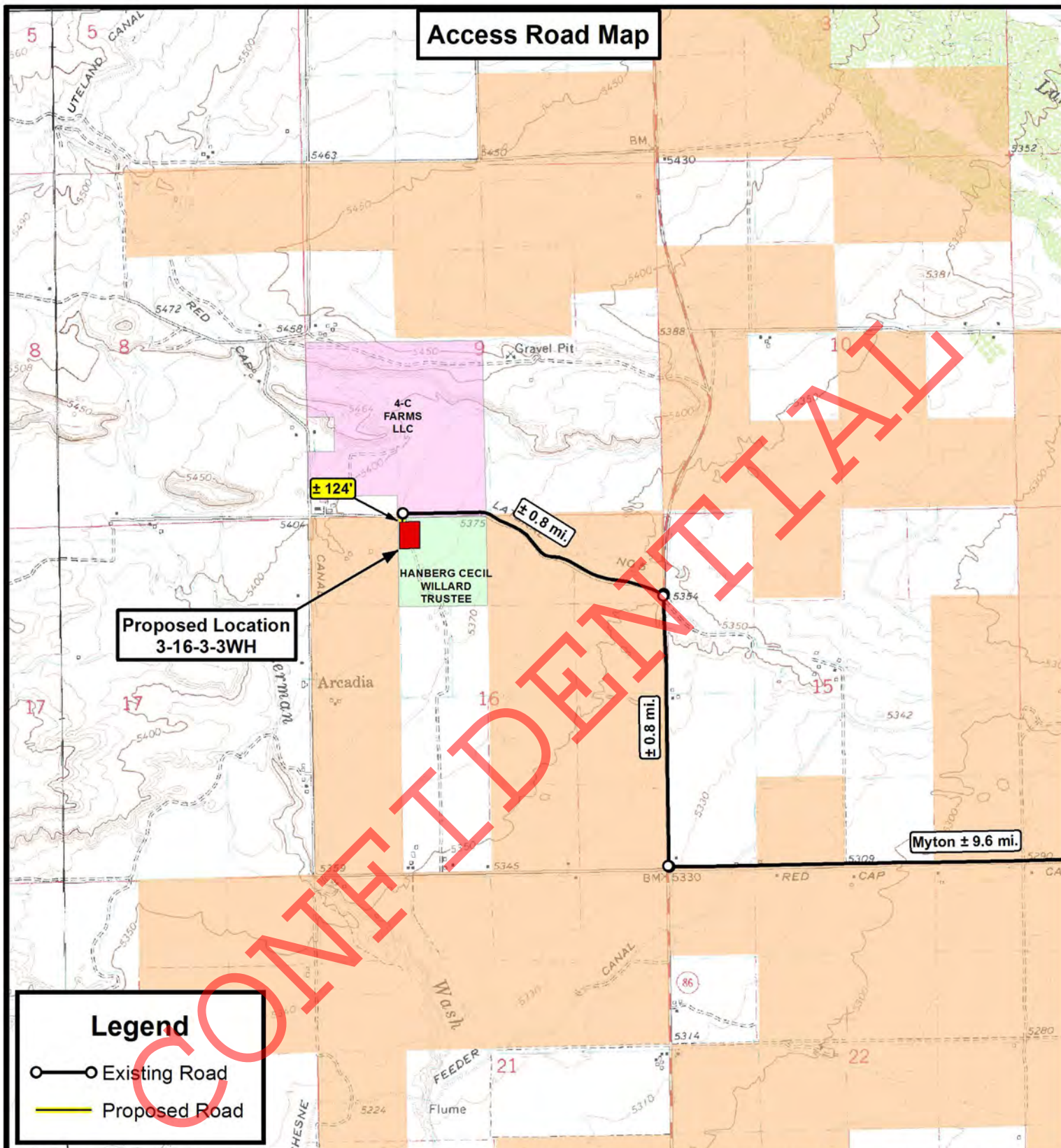
TRI STATE LAND SURVEYING & CONSULTING180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 11-02-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 11-03-11	DRAWN BY: F.T.M.	V3
REVISED: 12-13-11 F.T.M.	SCALE: 1" = 1000'	

RECEIVED: January 17, 2012



Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

3-16-3-3WH
SEC. 16, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY: A.P.C. REVISED: 12-13-11 A.P.C. VERSION:

DATE: 11-04-2011

SCALE: 1" = 2,000'

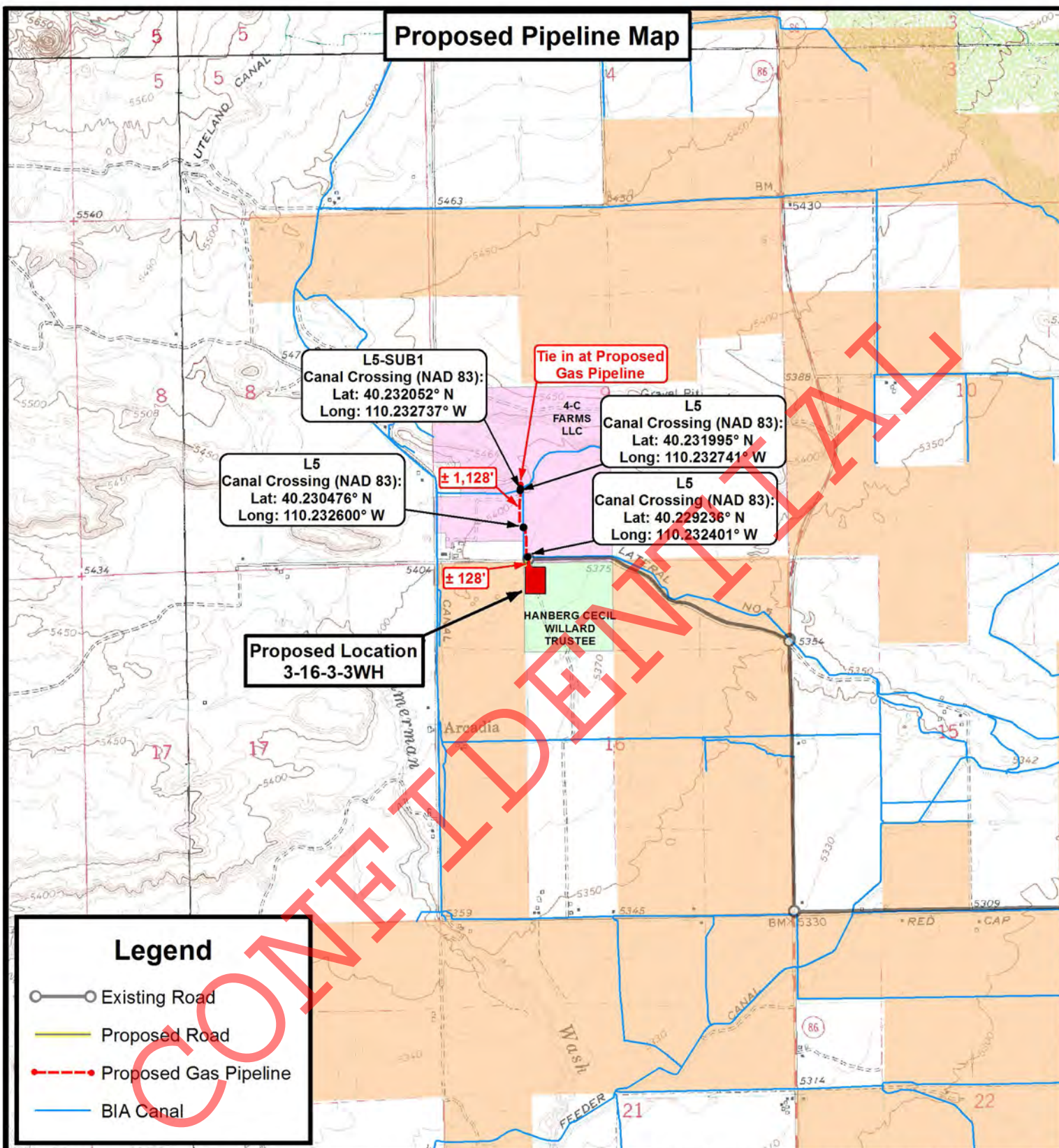
V3

TOPOGRAPHIC MAP

SHEET

B

Proposed Pipeline Map



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NEWFIELD EXPLORATION COMPANY

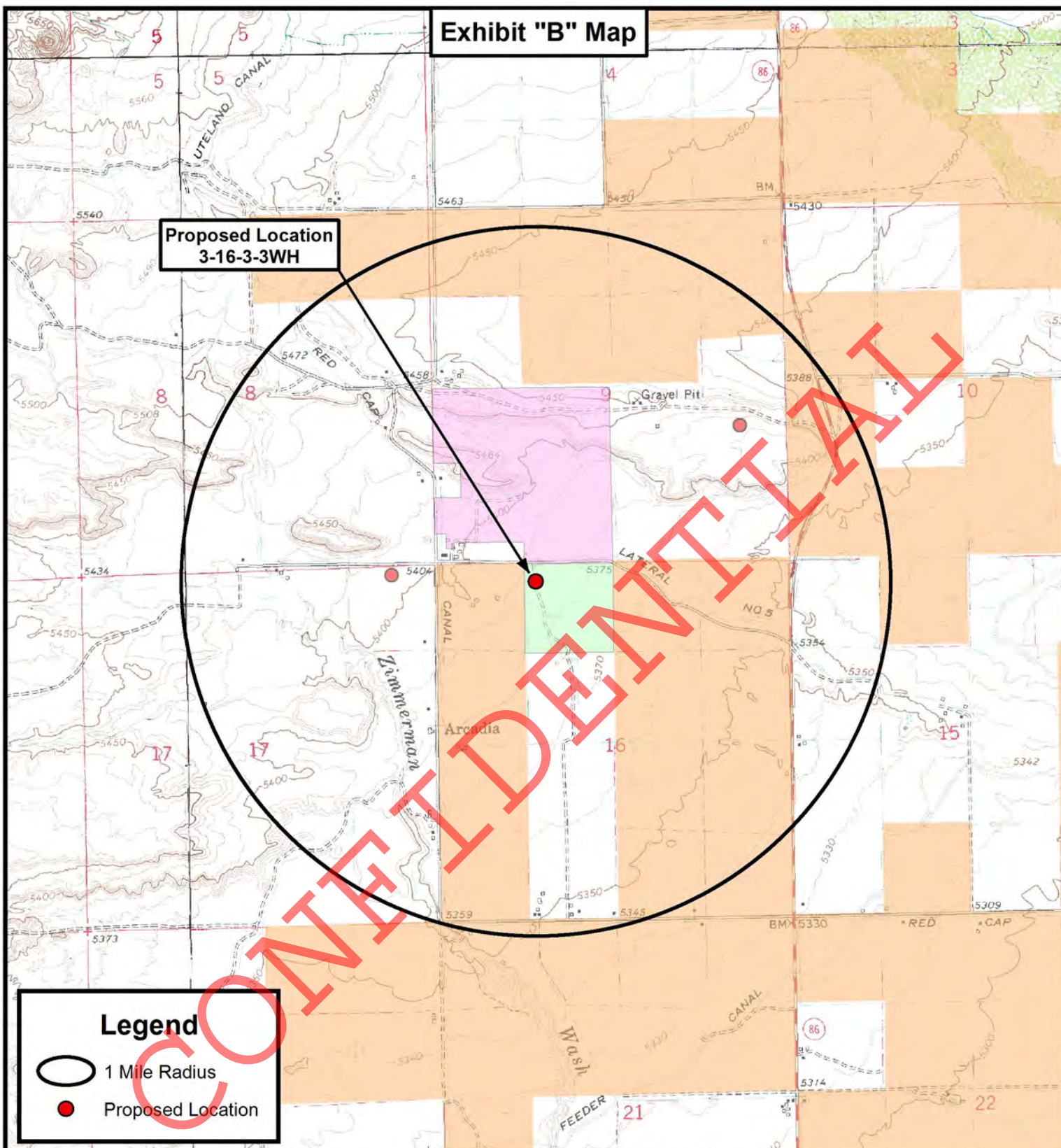
3-16-3-3WH
SEC. 16, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-13-11 A.P.C.	VERSION:
DATE:	11-04-2011			
SCALE:	1" = 2,000'			V3

TOPOGRAPHIC MAP

SHEET

C



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NEWFIELD EXPLORATION COMPANY

3-16-3-3WH
SEC. 16, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-13-11 A.P.C.	VERSION:
DATE:	11-04-2011			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET

D



NEWFIELD EXPLORATION CO.
DUCHESNE COUNTY, UT
GRACE 3-16-3-3WH

Plan: Design #1

Standard Survey Report

24 FEBRUARY, 2012

CONFIDENTIAL



NEWFIELD

Project: DUCHESNE COUNTY, UT
 Site: GRACE 3-16-3-WH
 Well: GRACE 3-16-3-WH
 Wellbore: GRACE 3-16-3-WH
 Design: Design #1
 Latitude: 40° 13' 41.830 N
 Longitude: 110° 13' 55.230 W
 GL: 5389.80
 KB: WELL @ 5407.80ft (PIONEER 68)

**Weatherford®****WELLBORE TARGET DETAILS (LAT/LONG)**

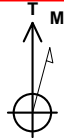
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL GRACE 3-16-3-WH	8786.00	-4309.20	578.63	40° 12' 59.243 N	110° 13' 47.771 W	

WELL DETAILS: GRACE 3-16-3-WH

+N/-S	+E/-W	Northing	Ground Level: Easting	5389.80 Latitude	Longitude	Slot
0.00	0.00	7254388.80	1994435.85	40° 13' 41.830 N	110° 13' 55.230 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8419.42	0.00	0.00	8419.42	0.00	0.00	0.00	0.00	0.00	Start Build 11.00
9257.97	92.24	147.92	8939.89	-458.58	287.46	11.00	147.92	492.76	Start DLS 3.00 TFO 89.36
10326.49	92.24	180.00	8897.01	-1471.33	578.63	3.00	89.36	1535.25	Start 2840.04 hold at 10326.49 MD
13166.54	92.24	180.00	8786.00	-4309.20	578.63	0.00	0.00	4347.88	TD at 13166.54

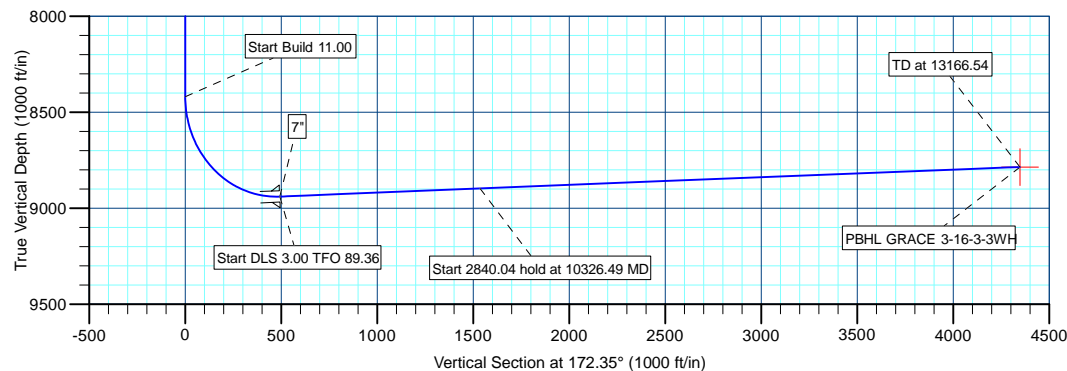
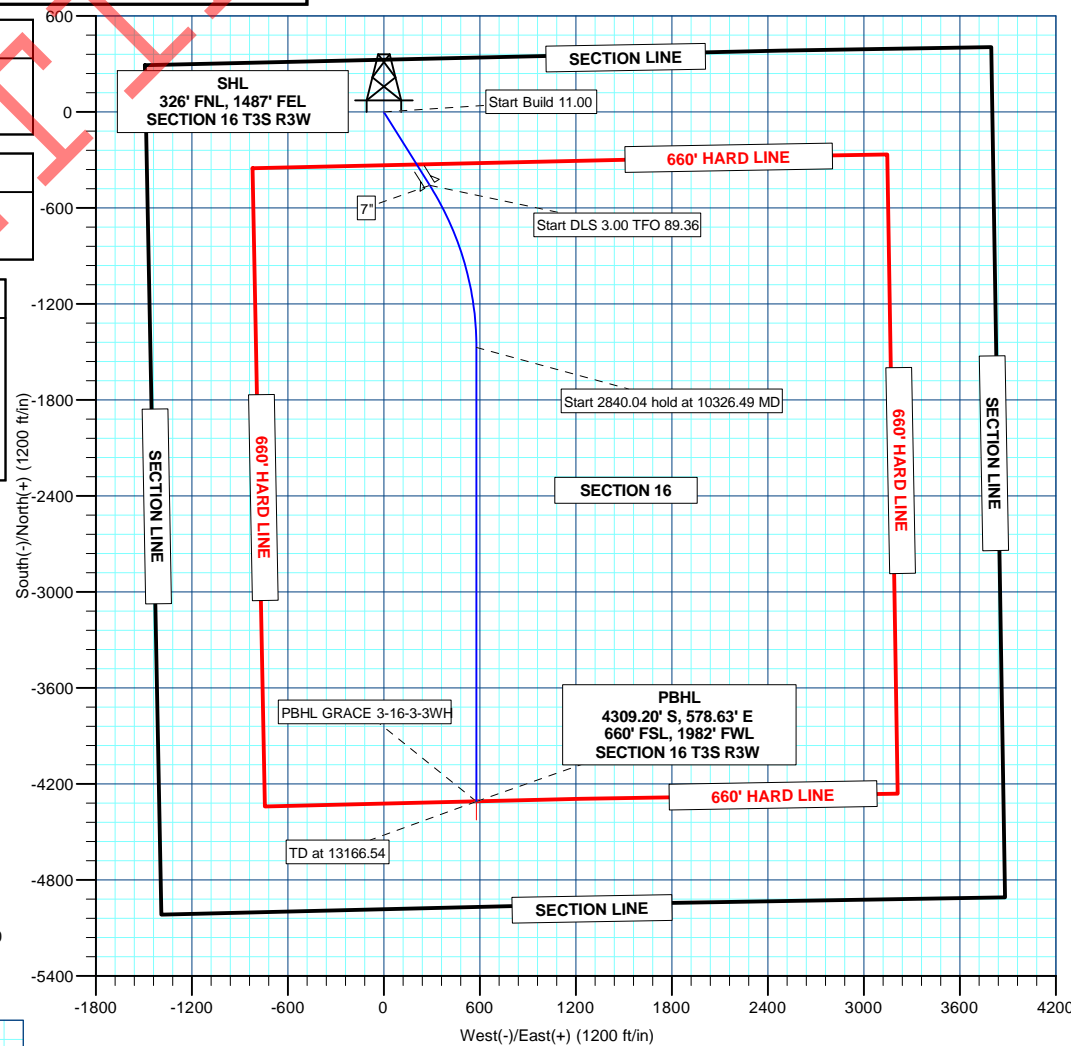
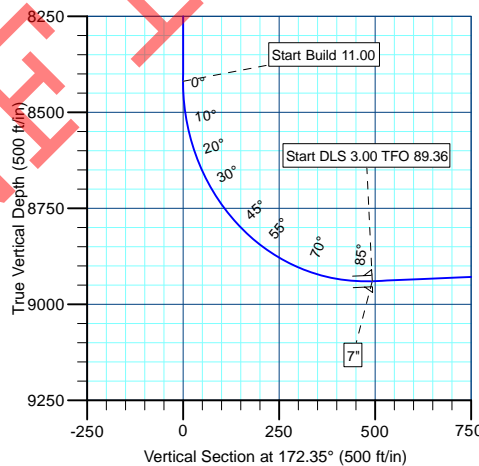


Azimuths to True North
 Magnetic North: 11.36°

Magnetic Field
 Strength: 52226.9nT
 Dip Angle: 65.88°
 Date: 2/24/2012
 Model: BGGM2011

CASING DETAILS

TVD	MD	Name	Size
8939.89	257.97		7" 7"



Plan: Design #1 (GRACE 3-16-3-WH/GRACE 3-16-3-WH)

Created By: TRACY WILLIAMS Date: 11:40, February 24 2012

NEWFIELD



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT

GRACE 3-16-3-3WH

GRACE 3-16-3-3WH

GRACE 3-16-3-3WH

Plan: Design #1

Standard Planning Report

24 February, 2012

CONFIDENTIAL



Weatherford®



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site GRACE 3-16-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	WELL @ 5407.80ft (PIONEER 68)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5407.80ft (PIONEER 68)
Site:	GRACE 3-16-3-3WH	North Reference:	True
Well:	GRACE 3-16-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	GRACE 3-16-3-3WH		
Design:	Design #1		

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	GRACE 3-16-3-3WH			
Site Position:		Northing:	7,254,388.80 ft	Latitude: 40° 13' 41.830 N
From:	Lat/Long	Easting:	1,994,435.85 ft	Longitude: 110° 13' 55.230 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence: 0.81 °

Well	GRACE 3-16-3-3WH			
Well Position	+N/-S	0.00 ft	Northing:	7,254,388.80 ft
	+E/-W	0.00 ft	Easting:	1,994,435.85 ft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	5,389.80 ft

Wellbore	GRACE 3-16-3-3WH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	2/24/2012	11.36	65.88	52,227

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	172.35

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,419.42	0.00	0.00	8,419.42	0.00	0.00	0.00	0.00	0.00	0.00	
9,257.97	92.24	147.92	8,939.89	-458.58	287.46	11.00	11.00	0.00	147.92	
10,326.49	92.24	180.00	8,897.01	-1,471.33	578.63	3.00	0.00	3.00	89.36	
13,166.54	92.24	180.00	8,786.00	-4,309.20	578.63	0.00	0.00	0.00	0.00	PBHL GRACE 3-16



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site GRACE 3-16-3-WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	WELL @ 5407.80ft (PIONEER 68)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5407.80ft (PIONEER 68)
Site:	GRACE 3-16-3-WH	North Reference:	True
Well:	GRACE 3-16-3-WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	GRACE 3-16-3-WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site GRACE 3-16-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	WELL @ 5407.80ft (PIONEER 68)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5407.80ft (PIONEER 68)
Site:	GRACE 3-16-3-3WH	North Reference:	True
Well:	GRACE 3-16-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	GRACE 3-16-3-3WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 11.00									
8,419.42	0.00	0.00	8,419.42	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	8.86	147.92	8,499.68	-5.27	3.30	5.66	11.00	11.00	0.00
8,600.00	19.86	147.92	8,596.40	-26.26	16.46	28.21	11.00	11.00	0.00
8,700.00	30.86	147.92	8,686.63	-62.50	39.18	67.16	11.00	11.00	0.00
8,800.00	41.86	147.92	8,767.03	-112.66	70.62	121.05	11.00	11.00	0.00
8,900.00	52.86	147.92	8,834.66	-174.89	109.63	187.93	11.00	11.00	0.00
9,000.00	63.86	147.92	8,887.03	-246.92	154.78	265.32	11.00	11.00	0.00
9,100.00	74.86	147.92	8,922.22	-326.09	204.41	350.40	11.00	11.00	0.00
9,200.00	85.86	147.92	8,938.93	-409.50	256.69	440.02	11.00	11.00	0.00
Start DLS 3.00 TFO 89.36 - 7"									
9,257.97	92.24	147.92	8,939.89	-458.59	287.46	492.76	11.00	11.00	0.00
9,300.00	92.25	149.18	8,938.25	-494.41	309.37	531.19	3.00	0.03	3.00
9,400.00	92.28	152.18	8,934.29	-581.53	358.29	624.04	3.00	0.03	3.00
9,500.00	92.30	155.19	8,930.29	-671.08	402.58	718.69	3.00	0.02	3.00
9,600.00	92.32	158.19	8,926.25	-762.83	442.12	814.89	3.00	0.02	3.00
9,700.00	92.33	161.19	8,922.20	-856.53	476.80	912.36	3.00	0.01	3.00
9,800.00	92.33	164.19	8,918.13	-951.91	506.52	1,010.85	3.00	0.00	3.00
9,900.00	92.33	167.20	8,914.07	-1,048.72	531.21	1,110.08	3.00	0.00	3.00
10,000.00	92.32	170.20	8,910.02	-1,146.68	550.79	1,209.79	3.00	-0.01	3.00
10,100.00	92.30	173.20	8,905.99	-1,245.55	565.22	1,309.69	3.00	-0.02	3.00
10,200.00	92.28	176.20	8,901.99	-1,345.03	574.44	1,409.51	3.00	-0.02	3.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site GRACE 3-16-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	WELL @ 5407.80ft (PIONEER 68)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5407.80ft (PIONEER 68)
Site:	GRACE 3-16-3-3WH	North Reference:	True
Well:	GRACE 3-16-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	GRACE 3-16-3-3WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.00	92.25	179.20	8,898.04	-1,444.86	578.45	1,508.99	3.00	-0.03	3.00
Start 2840.04 hold at 10326.49 MD									
10,326.49	92.24	180.00	8,897.01	-1,471.33	578.63	1,535.25	3.00	-0.03	3.00
10,400.00	92.24	180.00	8,894.13	-1,544.78	578.63	1,608.04	0.00	0.00	0.00
10,500.00	92.24	180.00	8,890.22	-1,644.70	578.63	1,707.08	0.00	0.00	0.00
10,600.00	92.24	180.00	8,886.31	-1,744.63	578.63	1,806.11	0.00	0.00	0.00
10,700.00	92.24	180.00	8,882.41	-1,844.55	578.63	1,905.15	0.00	0.00	0.00
10,800.00	92.24	180.00	8,878.50	-1,944.47	578.63	2,004.18	0.00	0.00	0.00
10,900.00	92.24	180.00	8,874.59	-2,044.40	578.63	2,103.22	0.00	0.00	0.00
11,000.00	92.24	180.00	8,870.68	-2,144.32	578.63	2,202.25	0.00	0.00	0.00
11,100.00	92.24	180.00	8,866.77	-2,244.24	578.63	2,301.29	0.00	0.00	0.00
11,200.00	92.24	180.00	8,862.86	-2,344.17	578.63	2,400.32	0.00	0.00	0.00
11,300.00	92.24	180.00	8,858.95	-2,444.09	578.63	2,499.36	0.00	0.00	0.00
11,400.00	92.24	180.00	8,855.05	-2,544.02	578.63	2,598.39	0.00	0.00	0.00
11,500.00	92.24	180.00	8,851.14	-2,643.94	578.63	2,697.43	0.00	0.00	0.00
11,600.00	92.24	180.00	8,847.23	-2,743.86	578.63	2,796.46	0.00	0.00	0.00
11,700.00	92.24	180.00	8,843.32	-2,843.79	578.63	2,895.50	0.00	0.00	0.00
11,800.00	92.24	180.00	8,839.41	-2,943.71	578.63	2,994.53	0.00	0.00	0.00
11,900.00	92.24	180.00	8,835.50	-3,043.63	578.63	3,093.57	0.00	0.00	0.00
12,000.00	92.24	180.00	8,831.59	-3,143.56	578.63	3,192.60	0.00	0.00	0.00
12,100.00	92.24	180.00	8,827.69	-3,243.48	578.63	3,291.64	0.00	0.00	0.00
12,200.00	92.24	180.00	8,823.78	-3,343.40	578.63	3,390.67	0.00	0.00	0.00
12,300.00	92.24	180.00	8,819.87	-3,443.33	578.63	3,489.70	0.00	0.00	0.00
12,400.00	92.24	180.00	8,815.96	-3,543.25	578.63	3,588.74	0.00	0.00	0.00
12,500.00	92.24	180.00	8,812.05	-3,643.18	578.63	3,687.77	0.00	0.00	0.00
12,600.00	92.24	180.00	8,808.14	-3,743.10	578.63	3,786.81	0.00	0.00	0.00
12,700.00	92.24	180.00	8,804.23	-3,843.02	578.63	3,885.84	0.00	0.00	0.00
12,800.00	92.24	180.00	8,800.33	-3,942.95	578.63	3,984.88	0.00	0.00	0.00
12,900.00	92.24	180.00	8,796.42	-4,042.87	578.63	4,083.91	0.00	0.00	0.00
13,000.00	92.24	180.00	8,792.51	-4,142.79	578.63	4,182.95	0.00	0.00	0.00
13,100.00	92.24	180.00	8,788.60	-4,242.72	578.63	4,281.98	0.00	0.00	0.00
TD at 13166.54 - PBHL GRACE 3-16-3-3WH									
13,166.54	92.24	180.00	8,786.00	-4,309.20	578.63	4,347.88	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL GRACE 3-16-3	0.00	0.00	8,786.00	-4,309.20	578.63	7,250,088.24	1,995,075.51	40° 12' 59.243 N	110° 13' 47.771 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
9,257.97	8,939.89	7"	7	8-3/4



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site GRACE 3-16-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	WELL @ 5407.80ft (PIONEER 68)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5407.80ft (PIONEER 68)
Site:	GRACE 3-16-3-3WH	North Reference:	True
Well:	GRACE 3-16-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	GRACE 3-16-3-3WH		
Design:	Design #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,419.42	8,419.42	0.00	0.00	Start Build 11.00
9,257.97	8,939.89	-458.58	287.46	Start DLS 3.00 TFO 89.36
10,326.49	8,897.01	-1,471.33	578.63	Start 2840.04 hold at 10326.49 MD
13,166.54	8,786.00	-4,309.20	578.63	TD at 13166.54

CONFIDENTIAL

**AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND
SURFACE USE AGREEMENT**

Christian C. Sizemore personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Christian C. Sizemore. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").
2. Newfield is the Operator of the proposed Grace 3-16-3-3WH well to be located in the NENW of Section 16, Township 3 South, Range 3 West, Duchesne, County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is WAYNE HANBERG and JAN HANBERG, Trustees, under the HANBERG LIVING TRUST, dated October 20, 2011, whose address is HC 64 Box 162, Duchesne, UT 84021 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated January 12, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.



Christian C. Sizemore, Landman

ACKNOWLEDGEMENT

STATE OF COLORADO §
 §
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 16th day of January, 2012, personally appeared Christian C. Sizemore, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

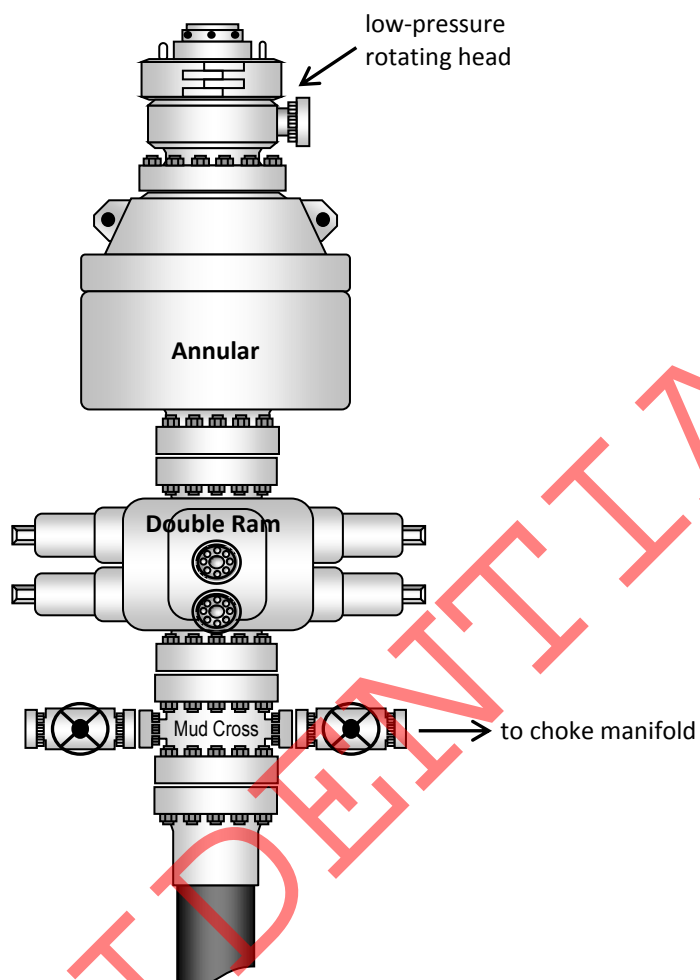


NOTARY PUBLIC

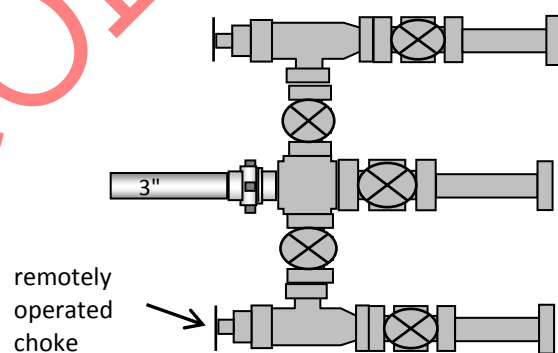
My Commission Expires:

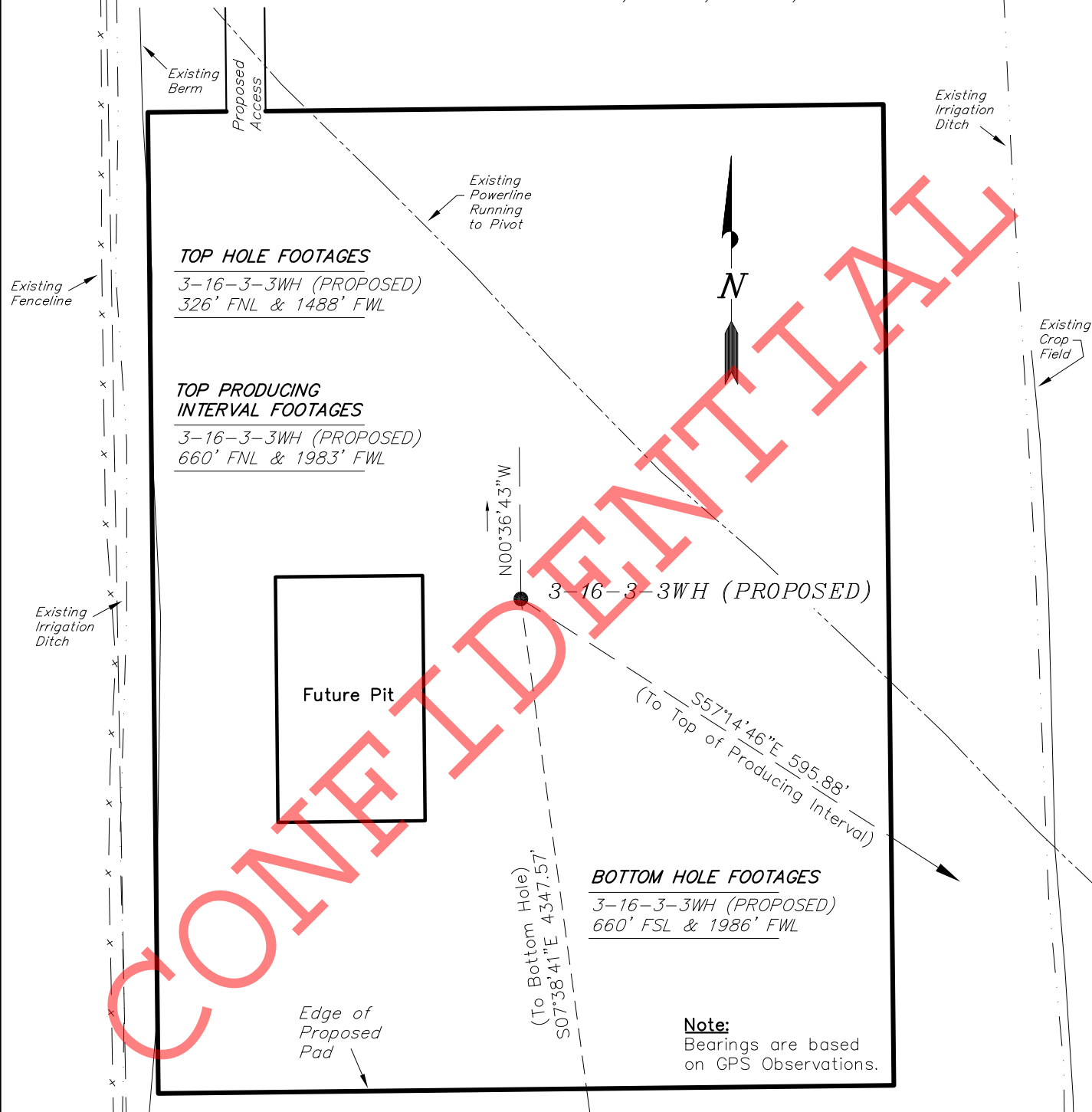


Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



NEWFIELD EXPLORATION COMPANY**WELL PAD INTERFERENCE PLAT****3-16-3-3WH****Pad Location: NENW Section 16, T3S, R3W, U.S.B.&M.****RELATIVE COORDINATES**
From Top Hole to Bottom Hole

WELL	NORTH	EAST
3-16-3-3WH	-4,309'	578'

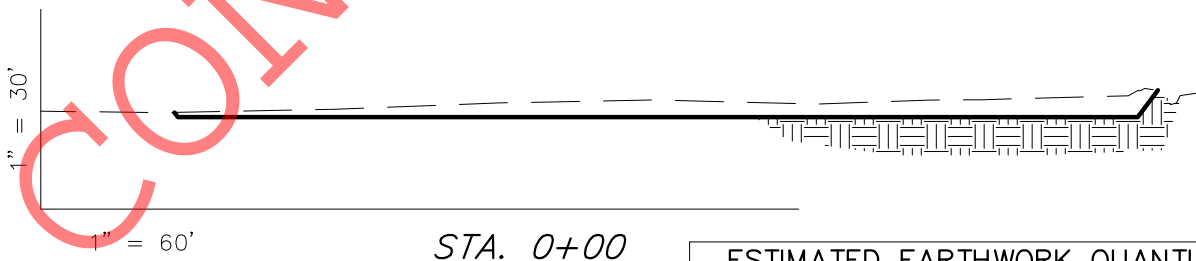
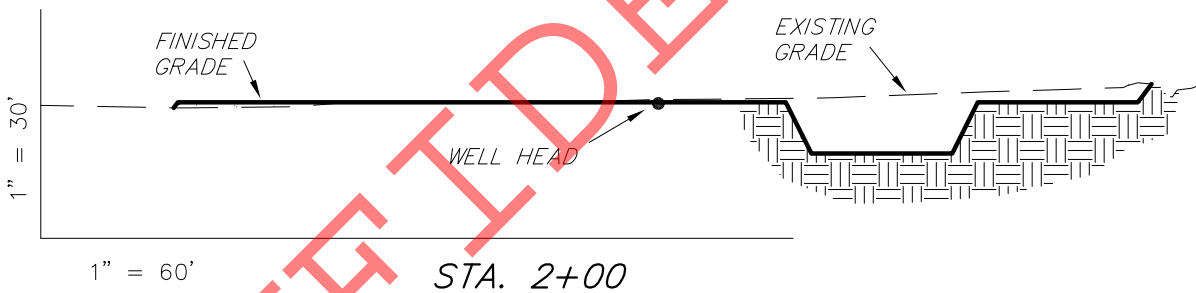
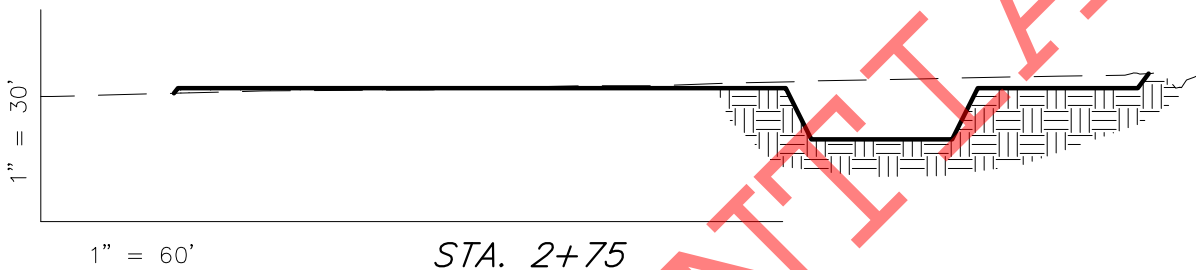
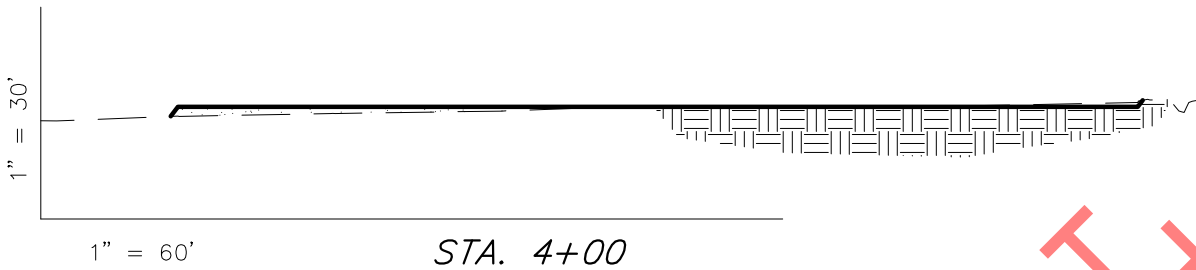
LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
3-16-3-3WH	40° 13' 41.83"	110° 13' 55.23"

SURVEYED BY: S.H.	DATE SURVEYED: 11-02-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-03-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 12-13-11	

Tri State (435) 781-2501
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: January 17, 2012

NEWFIELD EXPLORATION COMPANY**CROSS SECTIONS****3-16-3-3WH***Pad Location: NENW Section 16, T3S, R3W, U.S.B.&M.*

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

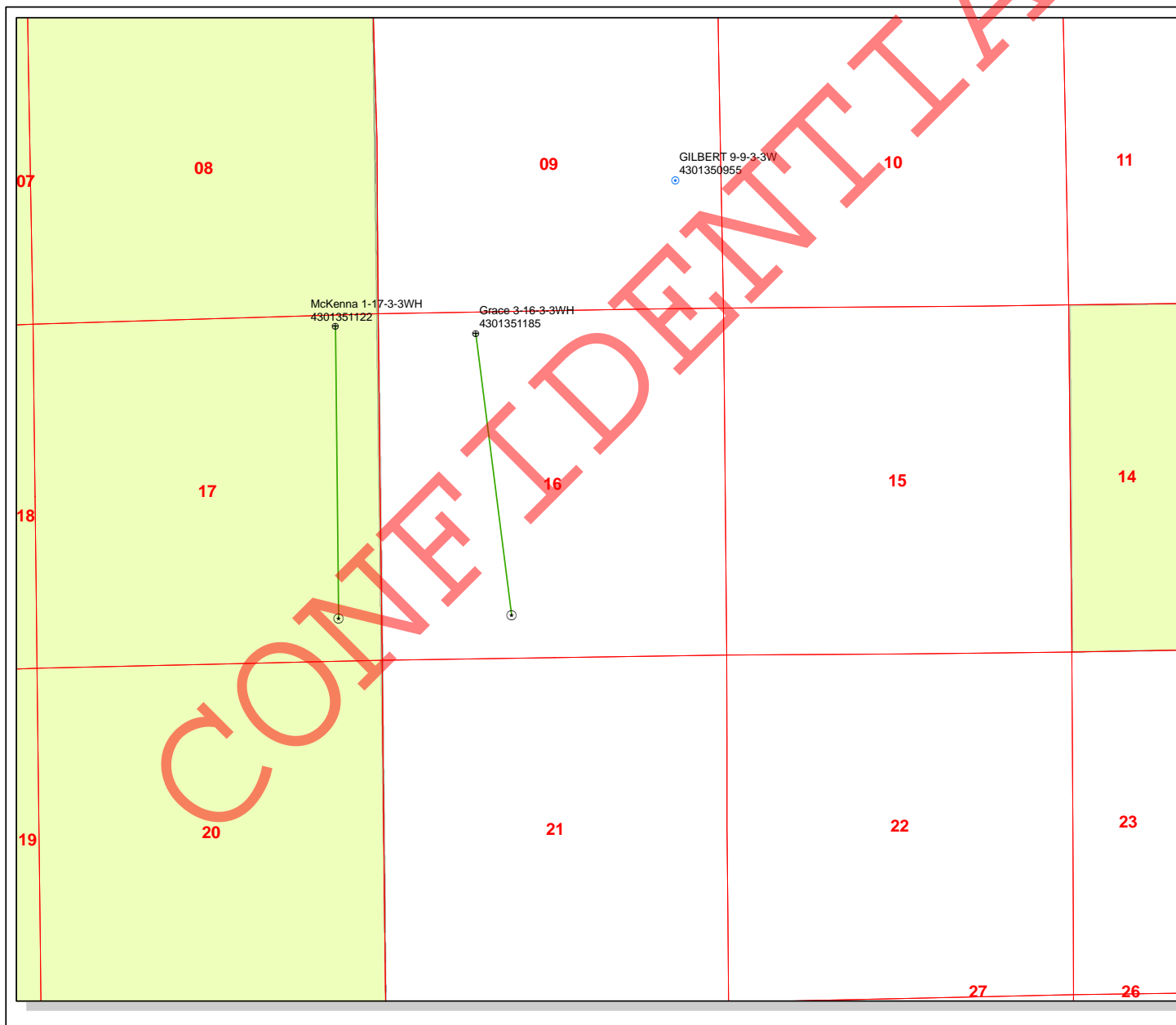
ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,010	1,160	Topsoil is not included in Pad Cut Volume	1,850
PIT	1,420	0		1,420
TOTALS	4,430	1,160	2,580	3,270

SURVEYED BY: S.H.	DATE SURVEYED: 11-02-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-03-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 12-13-11	

Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: January 17, 2012



API Number: 4301351185

Well Name: Grace 3-16-3-3WH

Township T0.3 . Range R0.3 . Section 16

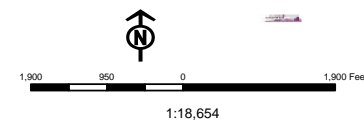
Meridian: UBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:

Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	Fields
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WW - Water Injection Well
TERMINATED	WSW - Water Supply Well



Well Name	NEWFIELD PRODUCTION COMPANY Grace 3-16-3-3WH 4301351185			
String	COND	SURF	I1	PROD
Casing Size(in)	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2500	8940	8786
Previous Shoe Setting Depth (TVD)	0	60	2500	8940
Max Mud Weight (ppg)	8.3	8.3	10.5	10.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	12410
Operators Max Anticipated Pressure (psi)	4569			10.0

Calculations	COND String	14.000	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		60	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

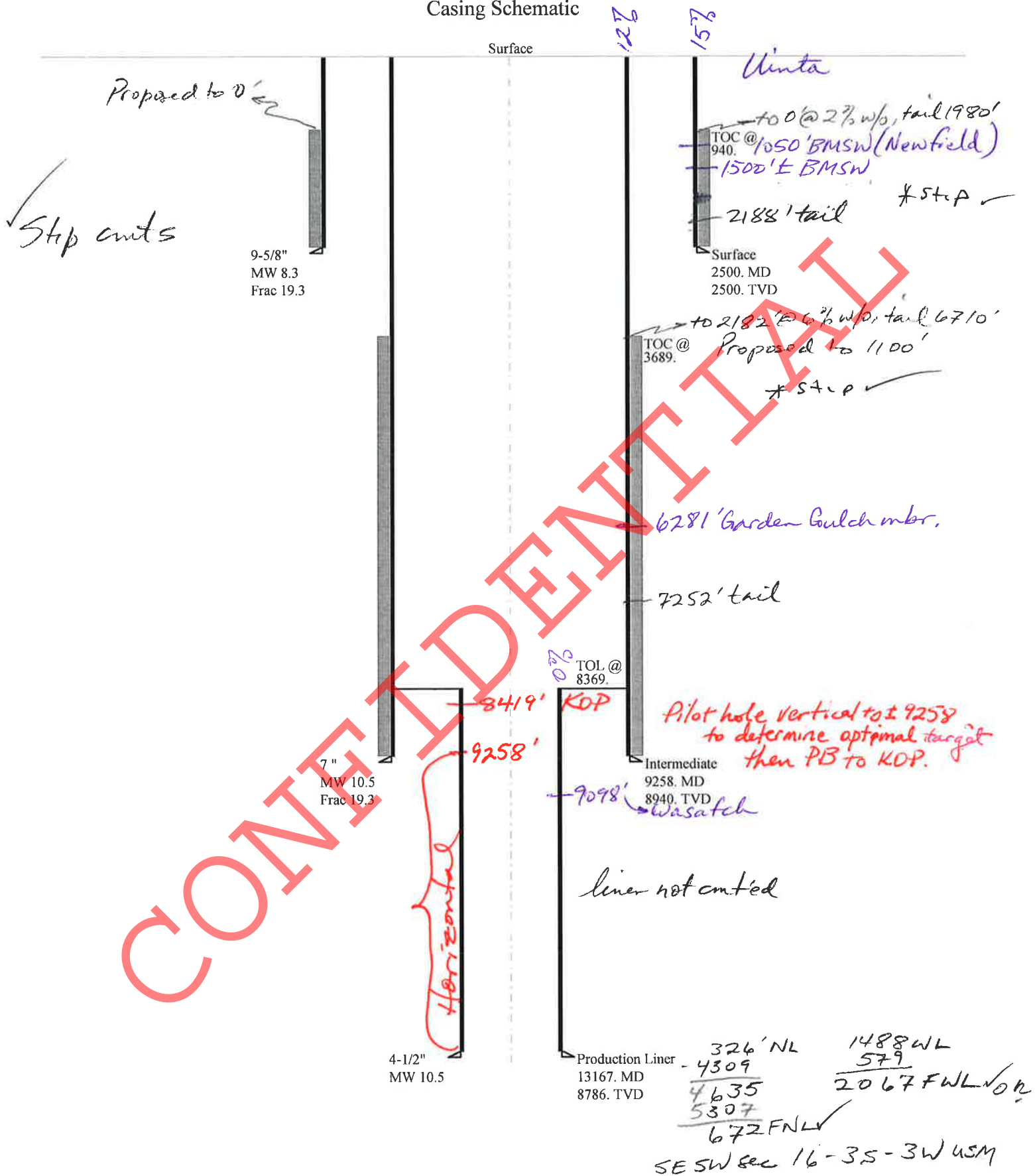
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1079	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO Reasonable depth, no expected pressure
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4881	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3808	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2914	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3464	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4797	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3743	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2864	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4831	YES OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8940	psi *Assumes 1psi/ft frac gradient

43013511850000 Grace 3-16-3-3WH

Casing Schematic



Well name:	43013511850000 Grace 3-16-3-3WH	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Surface	Project ID: 4301351185
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 109 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 940 ft

Burst

Max anticipated surface pressure: 2,200 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,500 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,192 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 8,935 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,873 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,500 ft
Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	36.00	J-55	ST&C	2500	2500	8.796	21730
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1082	2020	1.867	2500	3520	1.41	90	394	4.38 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: February 21, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013511850000 Grace 3-16-3-3WH	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Intermediate	Project ID: 4301351185
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 10.500 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 199 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 3,689 ft

Burst

Max anticipated surface pressure: 2,910 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,876 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 7,524 ft

Directional well information:

Kick-off point 8419 ft
Departure at shoe: 541 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 92.24 °

Re subsequent strings:

Next setting depth: 8,940 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,876 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 8,940 ft
Injection pressure: 8,940 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9258	7	26.00	P-110	Buttress	8940	9258	6.151	102958
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4412	5915	1.341	4876	9950	2.04	232.4	830.4	3.57 B

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: February 29, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8940 ft, a mud weight of 10.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013511850000 Grace 3-16-3-3WH	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Production Liner	Project ID: 4301351185
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 10.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 197 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst

Max anticipated surface pressure: 2,859 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,792 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 8,749 ft

Liner top: 8,369 ft

Directional well information:

Kick-off point 8419 ft
Departure at shoe: 4348 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 92.24 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	4767	4.5	13.50	P-110	Buttress	8786	13167	3.795	28599
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4792	10680	2.229	4826	12410	2.57	5.2	421.9	80.97 B

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: February 29, 2012
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 8786 ft, a mud weight of 10.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Grace 3-16-3-3WH
API Number 43013511850000 **APD No** 5196 **Field/Unit** WILDCAT
Location: 1/4,1/4 NENW **Sec** 16 **Tw** 3.0S **Rng** 3.0W 326 FNL 1488 FWL
GPS Coord (UTM) 565340 4453361 **Surface Owner** Wayne and Jan Hanberg

Participants

T. Eaton, F. Bird, Z. Mc Intyre– Newfield; C. Jensen,– DOGM; W. Hanberg- landowner

Regional/Local Setting & Topography

The proposed location is situated on fallow farm ground approximately 10 miles west of Hwy 40 and Myton in an area known as Arcadia. Arcadia is bordered by Big sand wash Reservoir 4 miles north and Lake Boreham 4 miles to the south. The area is criss crossed with irrigation canals (and associated ditches and laterals)and is nearby lake fork river and Zimmerman wash . The topography is quite flat and has sandy soils, that are somewhat sodic, conditions giving rise to a high water table typical of the area. Very much of the surrounding lands are used for farming and have seen increasing development for petroleum extraction.

Surface Use Plan

Current Surface Use
Agricultural

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 300 Length 400	Onsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Fallow farm ground overgrown with weeds. Particularly russian thistle

Disturbed soils do not support habitat for wildlife.

Soil Type and Characteristics

clayey sands. Soils are cultivated and sodic.

Erosion Issues N

Sedimentation Issues Y

sediment transport is always likely during high precipitation events with sandy soils

Site Stability Issues N

Drainage Diversion Required? N**Berm Required? N****Erosion Sedimentation Control Required? N****Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)		20
Distance to Surface Water (feet)		20
Dist. Nearest Municipal Well (ft)	500 to 1320	10
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Unknown	10
Final Score		80 1 Sensitivity Level

Characteristics / Requirements

pit dimensions are planned as 100'x 60' dug to a depth of 8' . Pit is also to be moved to corner # 4
(south western) to accomodate landowner request.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N**Other Observations / Comments**

land owner requests that topsoil not be removed and stockpiled. He would like to minimize disturbance area by this measure. He also requested the access road be moved to corner 6. This would conflict with tank farm location and will be placed at corner 7 as staked.

Chris Jensen
Evaluator

2/2/2012
Date / Time

Application for Permit to Drill Statement of Basis

3/5/2012

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5196	43013511850000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD	Wayne and Jan Hanberg	
Well Name	Grace 3-16-3-3WH		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	NENW 16 3S 3W U 326 FNL (UTM) 565337E 4453367N		1488 FWL	GPS Coord	

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 1,500'. Air and or fresh water will be used to drill the entire surface hole. A search of Division of Water Rights records shows 15 water wells within a 10,000 foot radius of the center of Section 16. Depth is listed as ranging from 52 to 400 feet. Depths are not listed for 4 wells. Water use is listed as irrigation, stock watering and domestic use. The nearest well is approximately 1/4 mile from the proposed location. This well is listed as 200 feet in depth. The surface formation at this site is the Uinta Formation. Wells in this area likely produce water from either the Uinta Formation or from near-surface alluvium. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The surface casing cement should be brought back to ground surface.

Brad Hill
APD Evaluator

2/8/2012
Date / Time

Surface Statement of Basis

Operator has surface agreement in place with the landowner. The reserve pit is to be moved to the boundaries of corner 4 and can be reclaimed for center pivot. An electric service cable for the center pivot is buried beneath the foot print of the pad. Operator will reroute this line around the perimeter of the pad as well as set new pole and 2 meters near corner 8. Location is proposed in the best possible position within the spacing window and owners land. This location has been chosen on the far western boundary of the farm and very near the road on the North.

The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection with comments noted above. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen
Onsite Evaluator

2/2/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

RECEIVED: March 05, 2012

Application for Permit to Drill Statement of Basis

3/5/2012

Utah Division of Oil, Gas and Mining

Page 2

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	Top soil is NOT to be stockpiled. Landowner wants pad built on top of soil.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/17/2012

API NO. ASSIGNED: 43013511850000

WELL NAME: Grace 3-16-3-3WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NENW 16 030S 030W

Permit Tech Review: ☒

SURFACE: 0326 FNL 1488 FWL

Engineering Review: ☒

BOTTOM: 0660 FSL 1986 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.22818

LONGITUDE: -110.23201

UTM SURF EASTINGS: 565337.00

NORTHINGS: 4453367.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE - B001834☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 437478☒ RDCC Review: 2012-03-02 00:00:00.0☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-2.6

Effective Date:

Siting:

☐ R649-3-11. Directional DrillComments: Presite Completed
TEMP 640 ACRE SPACING:Stipulations: 5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
21 - RDCC - dmason
23 - Spacing - dmason
25 - Surface Casing - hmacdonald
26 - Temporary Spacing - bhill

RECEIVED: March 05, 2012



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Grace 3-16-3-3WH
API Well Number: 43013511850000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 3/5/2012

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2.6. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

A temporary 640 acre spacing unit is hereby established in Section 16, Township 3 S, Range 3 W. USM for the drilling of this well (R649-3-2.6). No other horizontal wells may be drilled in this section unless approved by the Board of Oil, Gas and Mining.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas



GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 21, 2012

Notice to Oil and Gas Operators

Re: Hydraulic Fracturing/FracFocus.org

Although the process of hydraulic fracturing has been a commonly used method for obtaining production from oil and gas wells for many years in Utah and worldwide, this process has become an increasingly controversial issue with the public. Currently there are no conclusive studies that show examples of ground water contamination or public health issues resulting from hydraulic fracturing. However, there is still a great amount of public debate concerning the subject. The Division of Oil, Gas and Mining believes that in order to address some of the public anxiety concerning the process of hydraulic fracturing, it would be beneficial to the petroleum industry in Utah to voluntarily report the chemical content of hydraulic fracturing fluids to the website FracFocus (<http://fracfocus.org>).

FracFocus is the national hydraulic fracturing chemical registry website. This website is a joint project of the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission. The website is both educational and informative and an excellent resource for those seeking information on hydraulic fracturing.

After a hydraulic fracture stimulation is performed, the Division would ask the operator to post on the FracFocus Chemical Disclosure Registry the following stimulation detail:

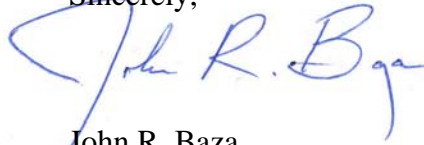
Fracture date, state, county, API number, operator name, well name, location, production type, true vertical depth, total water volume, and hydraulic fracturing fluid composition as follows:

- (1) Trade name
- (2) Supplier
- (3) Purpose
- (4) Ingredients
- (5) Chemical abstract number
- (6) Maximum ingredient concentration in additive
- (7) Maximum ingredient concentration in hydraulic fracturing fluid



On this website, the public can search for information about the chemicals used in the hydraulic fracturing of oil and gas wells by specific well and location. If you are not familiar with the FracFocus website, the Division encourages you to visit the website to acquaint yourself with the information that is being reported. Other oil and gas producing states have made similar requests or established regulatory requirements concerning hydraulic fracturing and the use of the FracFocus website. The Division strongly believes that through the openness of this request that it will promote the public's trust of the petroleum industry. This will continue to enhance a strong community support for the development of oil and gas, educate the public, and alleviate some of the so-called "mysteries" surrounding hydraulic fracturing. If you have any questions about this request for the voluntary efforts of Utah's petroleum industry, please direct them to John Rogers, Associate Director of Oil and Gas at 801-538-5349, by email at johnrogers@utah.gov.

Sincerely,

A handwritten signature in blue ink that reads "John R. Baza". The signature is fluid and cursive, with the first name "John" being the most prominent part.

John R. Baza
Director

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer 68 Submitted
By Jake Fulcher Phone Number 435-322-0257
Well Name/Number Grace 3-16-3-3WH
Qtr/Qtr NENW Section 16 Township 3S Range 3W
Lease Serial Number Patented
API Number 43-013-51185

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 3/12/12 9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☒ Other

Date/Time 3/12/12 12:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks _____

14" Conductor

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**
ADDRESS: **RT. 3 BOX 3630**
MYTON, UT 84052

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	18467	4301351185	GRACE 3-16-3-3WH	NENW	16	3S	3W	DUCHESNE	3/12/2012	3/2/12
WELL 1 COMMENTS: GRRV BHL: Senw											
B	99999	17400	4301350685	GMBU G-7-9-17	SWNW	7	9S	17E	DUCHESNE	3/20/2012	3/21/12
GRRV BHL: nenw											
A	99999	18468	4301350924	DILLMAN 3-17-3-2W	NENW	17	3S	2W	DUCHESNE	3/12/2012	3/21/12
GRRV											
A	99999	18469	4301351161	LH TRUST 3A-30-3-2W^{sup}	NENW	30	3S	2W	DUCHESNE	12/12/2011	3/21/12
WSTC											
A	99999	18472	4301351044	MULLINS 11-14-3-2W	NESW	14	3S	2W	DUCHESNE	2/1/2012	3/21/12
WSTC											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

ACTION CODES (See instructions on back of form)
A - 1 new entity for new well (single well only)
B - 1 well to existing entity (group or unit well)
C - from one existing entity to another existing entity
D - well from one existing entity to a new entity
E - ther (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

RECEIVED

MAR 21 2012

Oil & Gas Mining

Signature

Production Clerk

Jentri Park

03/21/12

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:		5. LEASE DESIGNATION AND SERIAL NUMBER:	
OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		FEE	
2. NAME OF OPERATOR:		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
NEWFIELD PRODUCTION COMPANY			
3. ADDRESS OF OPERATOR:		7. UNIT or CA AGREEMENT NAME:	
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		UINTA CB -BASAL CARB	
4. LOCATION OF WELL:		8. WELL NAME and NUMBER:	
FOOTAGES AT SURFACE:		GRACE 3-16-3-3WH	
0326 FNL 1488 FWL		9. API NUMBER:	
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 16, T3S, R3W		4301351185	
		10. FIELD AND POOL, OR WILDCAT:	
		COUNTY: DUCHESNE	
		STATE: UT	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
Approximate date work will	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
_____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
Date of Work Completion:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
03/14/2012	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 3/12/12 MIRU Ross #33. Spud well @12:00 PM. Drill 60' of 18" hole with air mist. TIH W/ 2 Jt's 14" H-40 36# csgn. Set @ 78. On 3/14/12 cement with 100 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 10 barrels cement to pit. WOC.

NAME (PLEASE PRINT) Branden Arnold TITLE _____
 SIGNATURE *Branden Arnold* DATE 04/17/2012

(This space for State use only)

RECEIVED

APR 19 2012

DIV. OF OIL, GAS & MINING

Casing / Liner Detail

Well Grace 3-16-3-3WH
Prospect Central Basin
Foreman
Run Date:
String Type Conductor, 14", 37#, H-40, welded

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
18.00	60.00	2	60' 14" Conductor	14.000	13.500
78.00			KB		

Cement Detail

ement Company:		Baker Hughes			
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft³)	Description - Slurry Class and Additives
Slurry 1	100	15.8	1.17	117	Class "G"2% CaCl

tab-In-Job?	No
HT:	0
itial Circulation Pressure:	
itial Circulation Rate:	
inal Circulation Pressure:	
inal Circulation Rate:	
isplacement Fluid:	Water
isplacement Rate:	
isplacement Volume:	8.5
ud Returns:	
entralizer Type And Placement:	

Cement To Surface?	Yes
Est. Top of Cement:	0
Plugs Bumped?	No
Pressure Plugs Bumped:	
Floats Holding?	No
Casing Stuck On / Off Bottom?	No
Casing Reciprocated?	No
Casing Rotated?	No
CIP:	12:13
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; NEWFIELD PRODUCTION COMPANY

Well Name: GRACE 3-16-3-3WH

Api No: 43-013-51185 Lease Type FEE

Section 16 Township 03S Range 03W County DUCHESNE

Drilling Contractor PIONEER RIG # #68

SPUDDED:

Date 05/10/2012

Time 6:00 PM

How ROTARY

Drilling will

Commence: _____

Reported by RICHARD McNEILL

Telephone # (720) 339-7239 (CELL)

Date 05/10/2012 Signed CHD

Carol Daniels - Newfield Grace 3-16-3-3WH 4 1/2" Liner & Rig Move Notice

From: "Pioneer 68" <den_pio68@nfxrig.com>
To: "Alexis Heufner" <alexisheufner@utah.gov>, "Carol Daniels" <caroldaniels...
Date: 6/1/2012 5:00 PM
Subject: Newfield Grace 3-16-3-3WH 4 1/2" Liner & Rig Move Notice
CC: "Hans Wychgram" <hwychgram@newfield.com>, "Mitch Benson" <mbenson@newfie...

Operator: Newfield Production Company
Well Name: Grace 3-16-3-3WH
Rig: Pioneer #68
Legals: 326' FNL 1488' FWL Sec. 16-T3S-R3W
Duchesne County, Utah
API #: 43-013-511-85-0000
Contact: See Below

Est. Run 4 1/2" Liner: 05:30 6/2/2012
Est. Cement: No Cement
Est. Rig Move: 07:00 6/4/2012

Richard McNeill
Newfield Drilling Supervisor
Pioneer 68
Office 970 361-3263
Cell 720 339-7239
den_pio68@nfxrig.com

RECEIVED
JUN 01 2012
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		8. WELL NAME and NUMBER: GRACE 3-16-3-3WH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0326 FNL 1488 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013511850000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/6/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 09/06/2012 at 19:00 hours. The above well was placed on pump on 09/07/2012 at 08:00 hours. Production Start Sundry re-sent 10/05/2012.		
NAME (PLEASE PRINT) Kaci Deveraux		PHONE NUMBER 435 646-4867
SIGNATURE N/A		TITLE Production Technician
DATE 10/5/2012		<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 09, 2012 </div>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Patented																														
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2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:																														
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NAME (PLEASE PRINT) Kaci Deveraux	PHONE NUMBER 435 646-4867	TITLE Production Technician																														
SIGNATURE N/A	DATE 10/5/2012																															

Daily Activity Report**Format For Sundry****GRACE 3-16-3-3WH****7/1/2012 To 11/30/2012****7/1/2012 Day: 13****Completion**

WWS #5 on 7/1/2012 - Finish LD 4.5" casing. Change rams from 4.5" to 2 3/8". Pressure test rams. PU 2 3/8: work string. - TTS Crossover arrived on location, BHA= (Concave Carbide Mill 3.75 X 1.07" ID X 2-3/8 PAC)-(Rotary sub 2.88" OD -1.38" ID X .75") - (Dual Circulating Sub 2.88" OD -.56" ID X 1.58)-(HYD Disconnect 2.88" OD -.696" ID X 2.23)-(TTS Directional Jar 2.88" OD -1.00" ID X 5.25)-(Dual Backpressure Valve 2.88" OD -1.00" ID X 2.00) (Rotary sub 2.90" OD -1.38" ID X 1.16) I Jt 2 3/8 tubing 5.95 P 110 X 30.58 ft.)-(R nipple 1.71" X .97) = 15.01 feet - 03:30 - Out of hole with 203 jts of 4.5" casing frac string, RDMO Weatherford's casing crew and equipment. Change out 4.5" casing BOP rams to 2 3/8" pipe rams and pressure test 2 3/8" pipe rams to 250 psi low for 5 mins, & 9,500 psi high for 10 mins. Release pressure, Tests charted and in well file. - 06:00 - Turn well over to Day Completion Foreman: George Kartchner. Finish pressure test 2 7/8" tubing rams. Release pressure, Tests charted and in well file. - 08:30 - Spot & RU mixing tank. RU closed loop circulating system. - 09:30 - Wait on hydraulic catwalk. PU and assemble TTS BHA assembly. - 12:00 - Catwalk on location. Spot & RU catwalk. Can not raise catwalk. Work on hydraulics. Hydraulics fixed. Position catwalk rams. - 13:15 - Safety meeting w/ WWS rig crew, Pure Energy flowback crew & RMT equipment operator. - 15:00 - RIH to 1020.55' (33 jts plus BHA). Load tubing slick water. Test Supermax Motor. Circulate 10 bbls. SD pump. 13:30 - Unlock & open blind rams. Open manual master valve. RIH w/ TTS BHA & 2 3/8" PH6 tubing. - 15:30 - OOH. LD Concave Twister mill, Supermax motor & XRV FR tool. 15:15 - POOH. - Rig crew had rotation Held 2nd Safety meeting with all vendors on Location, Western well Service, Discuss: PPE, Housekeeping, communications, smoking area, muster points, high pressure testing, pinch & crush points, slips trips & falls & suspended loads.--EOT 4037 Ft 130 jts tubing in hole-PU WT 18K, SO WT 16K NEUT WT 16K -will Install 2nd R Nipple at Jt 148 will place it at 4600 feet filling tubing every 1,000 feet, break circulation every 2,000 feet. - EOT 1750 Feet - 55 jts tubing - RIH with BHA and 2 3/8" PH6 5.95 P110 tubing - filling tubing every 1,000 feet, Break circulation every 2,000 feet - 24:00 Continue to POH with 4.5" frac string, - Safety meeting with all vendors on Location, Western well Service, Cudd, Pure energy, TTS Discuss: PPE, Housekeeping, communications, smoking area, muster points, high pressure testing, pinch & crush points, slips trips & falls & suspended loads. - Change over with day Completions Foreman - On Location for night Shift Willie O Neill 505-860-3326 & Bob Martin 505-320-2658 - 18:00 - Turn well over to night shift Completions Foreman: Bob Martin. Cell: 505- 320-2658 15:30 - OOH. LD Concave Twister mill, Supermax motor & XRV FR tool. Wait on bit sub & mill to arrive from Rocksprings.

Daily Cost: \$0**Cumulative Cost:** \$1,085,334**7/2/2012 Day: 14****Completion**

WWS #5 on 7/2/2012 - PU 2 3/8" tubing. D/O 2 kill plugs and 4 frac sleeves. - 6:00 Tag Plug #1 Kill Plug - Pull up 5 feet circulate Friction reducer and pipe on pipe - Circulate at 3.5 - 2300 psi BBL/Min in and 3.5 BBL/Min out 2100 psi - Circulating at 130 RPM /Min 4:00 EOT at Top of Liner 8343 Feet - 2 Jts above kill plug - total Jts in hole 270 feet-PU WT 48K, SO WT 42K NEUT WT 42K - Circulate at 3.5 BBL/Min in at 2300 psi and 3.5 BBL/Min out at 2300 psi - Torque 1100 - RPM 140 3:00 EOT 7135 Ft 230 jts tubing in hole-PU WT 28K, SO WT 30K NEUT WT 30K - 2nd R Nipple set at Jt 148 at 4600 feet filling tubing every 1,000 feet, break circulation every 2,000 feet. 1140 feet 36 Jts to reach TOL at 8274 Feet. 00:00 EOT 4037 Ft 130 jts tubing in hole-PU WT 18K, SO WT 16K NEUT WT 16K -will Install 2nd R Nipple at Jt 148 will

place it at 4600 feet filling tubing every 1,000 feet, break circulation every 2,000 feet. - Tagged plug at 8540 feet - 5 feet off from wire line -Pulled up 5 feet to circulate - PU WT 48K, SO WT 42K NEUT WT 42K - Safety meeting. - 8:15 Thru plug #1 picking up pipe & 1 hr. to DO Plug & Pump 10 BBL gel sweep 7:15 Tag Kill Plug #1 at 8440 feet with 273 jts in Hole start milling on plug & WOB 2800 -3 bbl. In 3800 psi and 3 bbl. Out at 3000 psi , Torque 1700- 150 RPM & PU weight 38K & SO WT-34K neutral WT 36K 6:30 Circulate hole with rig pump could only get 3 BPM at 3000 psi Max , Shut down and bring on Cudd pump 3.5 BPM 3800 Psi in, and 3.5 bbl. Out at 3000 psi - 00:00 & Currently RIH to Tag Plug # 5 Tag sleeve #5. . 23:15 & Thru sleeve #4. D/O time 40 minutes. Pump 10 bbl. sweep, 20 bbl. water, 2- 10 bbl. gell sweeps; 22:35 - Tag sleeve #4. . Tag on joint # 327 (10108&) D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 2.75 bpm @ 3780 psi. Casing & 2900 psi on 20/64& choke. BBL in/BBL out. - 12:00 & SD pump. Total of 365 bbls pumped. Large amount of small pieces of plugs returned. Close choke manifold. Bleed down tubing pressure. SI casing pressure & 3100 psi. Hang back swivel. 09:50 & Thru Kill plug #2. Pump 10 bbl gell sweep & follow w/ 320 bbls of water for first clean up cycle. Pumping @ 2.75 bbls w/ 4300 psi & returns @ 3100 psi on 20/64 choke. 09:30 & D/O Kill plug #2 @ 8780&TM. 3 bpm & 4300 psi & 10K on bit. 09:15 & Kelly hose replaced. Establish circulation w/ Cudd pump truck @ 3 bpm & 4300 psi on joint # 274 (8470&TM). Returns @ 2800 psi on 22/64 choke. AV- 91.5 ft/min. - 17:15 & Thru sleeve #2. D/O time 12 minutes. Pump 10 bbl sweep, 20 bbls water, 10 bbl gell sweep, pump bottoms up (300 bbls). 17:00 - Tag sleeve #2. D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 2.75 bpm @ 4300 psi. Casing & 3100 psi on 21/64& choke. BBL in/BBL out. 15:45 & PU tubing w/ swivel. Tag on joint # 309 (9536&). Wash sand from 9536& to 9704&. 15:15 & Thru sleeve #1. 24 minute drill time. Pump 10 bbl gell sweep & follow w/ 40 bbls slick water. 14:45 & Establish circulation W/ Cudd Pumping services @ 2.5 bpm & 4150 psi. SICP & 3100 psi. Open flowback line & maintain 3100 psi on 21/64& choke. Swivel: FS 1000#. String wt. & 49K. SO WT & 48K. PU wt & 51K. Tag & D/O sleeve #1 @ 9522&. Joint #308. 13:00 & Single up drill line, install new kelly hose. 12:15 & PU tubing to tag 1st frac sleeve. PU 35 jts tubing to 9480&. Tag depth at jt #308 @ 9522&. - 21:03 & Thru sleeve #3. D/O time 18 minutes. Pump 10 bbl. Sweep, 20 bbl. Water, 10 bbl. Gell sweep, 20:45 - Tag sleeve #3. Tag on joint # 320 (9910&)-D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 2.5 bpm @ 3839 psi. Casing & 3000 psi on 21/64& choke. BBL in/BBL out. 19:30 - Finish pumping clean cycle. Pick up 6 stands filling and circulating to reach sleeve #3 18:00 - On location Switch out with day Supervisor & Currently circulating Bottoms Up 300 bbl. On Location Night Shift Willie O Neill 505-860-3326 - 8:30 Had to shut down and change out Kelly hose, had two small pin holes in Hose

Daily Cost: \$0

Cumulative Cost: \$1,118,945

7/3/2012 Day: 15

Completion

WWS #5 on 7/3/2012 - DO Frac Sleeves 5,6,7,8,9,10,11,12, and Circulate Bottoms up - Shut down BHA check valves not holding - 04:28 - Tag sleeve #7. Tag on joint # 345 (10671&) D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 3.5 bpm @ 4200 psi. Casing & 2950 psi on 18/64& choke. BBL in/BBL out. 04:48 & Thru sleeve #7. D/O time 20 minutes. Pump 10 bbl. Sweep, 40 bbl. Water, - 10 bbl. Gell sweep; 05:45 - Tag sleeve #8. Tag on joint # 351 (10856&) D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 3.3 bpm @ 4200 psi. Casing & 2880 psi on 17/64& choke. BBL in/BBL out. 05:55 - Thru sleeve #8. D/O time 10 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweep; 06:15 - Pick up pipe to Tag Sleeve #9 and circulate well - 02:15 - Finish pumping clean cycle. 340 BBL btm up- Pick up 7 stands filling and Circ to reach sleeve #6- String wt. & 28K. SO WT & 26K. PU WT & 30K. 03:00 - Tag sleeve #6. . Tag on joint # 339 (10473&) D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 3.4 bpm @ 4200 psi. Casing & 2900 psi on 18/64& choke. BBL in/BBL out. 03:15 & Thru sleeve #6. D/O time 15 minutes. Pump 10 bbl. Sweep, 40 bbl. Water, - 10 bbl. Gell sweep; - 00:20 & Tag Plug # 5 Tag sleeve #5 Tag on joint # 332 (10279&) -D/O sleeve. 4K set on bit. Swivel: FS & 1000# D/O & 1400#. 3.4 bpm @ 4200 psi. Casing & 2900

psi on 18/64 choke. BBL in/BBL out. 00:43 thru sleeve #5. D/O time 23 minutes. Pump 10 bbl. sweep, 40 bbl. Circ Bottoms up 340 bbl. 02:15 - Finish pumping clean cycle. Pick up 6 stands filling and circulating to reach sleeve #6 - 00:00 - getting ready to Pressure test lubricator and RIH with 2nd plug 23:00- Rebuild 2nd plug and changed equalizing Sub to make up difference in prong depth. 22:45-POOH with Plug Bottom did not shear-Had X nipple prong- Should have had N nipple prong 22:30- On depth 4600 Feet with 1.71R tubing Plug DID NOT SET - 21:30 thru RIH with Superior WL to set Tubing plug at 4600 feet. 20:00- Crossover arrived thru Hook lubricator to WH and Pressure testing with WFD pump 18:00 - Wire Line arrived on location- Waiting on Changeover for Well Head 2 7/8 IF Pin thru 2 7/8 Box - 16:00 - Call for slickline truck to set thru pump through plug in thru nipple @ 4600' above BHA. Pump clean cycle. 10 bbl gels sweep, 20 bbl spacer, 10 bbl gel sweep, pump 390 bbls (bottoms up) . - 15:45 thru SD pump. Release pressure. Full flow to pit. Shut bleedoff & pressure went to 3100 psi on pump. Dual flapper back pressure valve failed. Pump clean cycle. 15:15 thru PU tubing to tag sleeve # 13 w/ joint #382 (11812'). PU wt thru 35K, Hang wt thru 32K, SO wt thru 29K. 14:34 thru sleeve #12. D/O time thru 27 minutes. Pump 10 bbl gel sweep, 20 bbl fresh water spacer, 10 bbl gel sweep, 20 bbl fresh water spacer. SD pump. Release pressure. 14:00 thru Tag sleeve #12 @ 11629'. Start pump @ 3.2 bpm & 4350 psi. 5K on bit. PU wt thru 35K, Hang wt thru 32K, SO wt thru 29K. Swivel: FS thru 1000#, D/O thru 1450#. PU wt thru 32K, Hang wt thru 30K, SO wt thru 28K. FCP thru 2950 psi. +/- 1% sand. Start mixing pipe on pipe due to torque. 13:15 thru SD pump. PU tubing to tag sleeve # 12 @ 11620'. Wash down each joint. 12:45 thru sleeve #11. D/O time- 28 minutes. Pump 10 bbl gel sweep, 20 bbls spacer, 10 bbl gel sweep, 20 bbl spacer. - 12:00 thru Tag sleeve #11 on joint #369 (11429'). Pump: 3.2 bpm @ 4250 psi. Swivel: FS thru 1000#, D/O thru 1400#. FCP thru 2850 psi w/ trace of sand. 4 K on bit. D/O time on sleeve thru 24 minutes. 11:20 thru SD pump. PU tubing to tag sleeve #11. Wash down each joint. 08:45 thru sleeve #10. Sand returns 10%. Pump 10 bbls sweep, 20 bbl spacer, 10 bbl sweep & 350 bbls @ 3 bpm & 4300 psi for bottoms up. 08:20 - Tag on joint #364 @ 11263' Establish circulation @ 3 bpm & 4150 psi. Swivel: FS thru 1000#. D/O thru 1400#. Casing: SICP thru 3150 psi. FDP thru 2850 psi. 07:35 thru SD pump. PU 6 tubing to tag sleeve #10 at 11236'. Clean sand on each joint. Tag on joint #365 @ 11263' Establish circulation @ 3 bpm & 4150 psi. Swivel: FS thru 1000#. D/O thru 1400#. Casing: SICP thru 3150 psi. FDP thru 2850 psi. 07:10 thru sleeve #9. D/O time -11 minutes. Pump 10 bbl gell sweep, 20 bbls water, 10 bbl gell sweep, 40bbls water. Trace of sand. 07:00 thru Tag sleeve #9 w/ joint # 357 (11048'). Establish circulation w/ Cudd pump truck @ 3 bpm & 4150 psi. D/O sleeve in 10 minutes w/ 4K on bit. Swivel: FS- 1000#, D/O thru 1600# FCP thru 2800 psi.

Daily Cost: \$0

Cumulative Cost: \$1,205,782

7/4/2012 Day: 16

Completion

WWS #5 on 7/4/2012 - RIH and attempt to set Tubing plug - 16:00 thru Remove BD hose. RU power swivel. 15:30 thru OOH. Unhook lubricator. Check for plug. Plug has been set. Remove SL swedge. Install 1502 X 2' swedge & hookup bleedoff line. Bleed down tubing. Circulating plug holding. Perform 30 minute negative test. SICP thru 3200 psi. RDSL. 15:00 -7000' thru PU wt thru 325#, Neutral wt thru 275#, SO thru 225#. Tag @ 7224' SLM. Set R circulating plug. POOH. 14:20 thru RIH w/ 2nd R circulating plug. 14:00 thru Change out 2 7/8' IF pin x 2 3/8' EUE box X-over. PT to 4800 psi. Good test. BD to 3300 psi. 13:00 - Hookup SL lubricator & PT to 4800 psi. Box end of 2 7/8' IF pin x 2 3/8' EUE box X-over leaking. Change out 2 7/8' IF pin x 2 3/8' EUE box X-over. - 12:00 thru OOH. Plug not set. LD plug & redress. Mic plug & seal assembly. Correct size. Set plug in R nipple on surface. Fit properly. Had to hammer on plug 3-4 times to get it to seat. When dressing plug it is single pinned with a 3/16' brass pin. We think when we try to seat the plug we are shearing the pin on the first strike. Install 2nd 3/16' shear pin (double pin) in the plug. 11:30 thru POOH. 10:45 thru Open well. RIH w/ R circulating plug. RIH @250'/min. 7000' thru PU wt thru 350#, Neutral thru 250#, SO thru 1503. Tag R nipple @ 7222' SLM. Set plug. 10:15 thru Install & PT SL lubricator to 4800 psi. Good test. BD to 3300 psi. - 10:00 thru Safety meeting. Discuss: PPE, muster are, smoking area, overhead lifting, working in elevated

areas, high pressure & not walking under SL to floor. 08:30 - Slick line on location. Spot & RUSL. Day shift on location. George Kartchner 505-486-0146 - 06:00- waiting on 2nd Superior WL truck to arrive with weigh bars & Should be here at 7 am 03:00 - Circulate tubing clean with fresh Water Down Waiting for weigh Bars from Grand Junction 02:30 - Circulate hole Clean. - 18:00 - Pump 10 bbl gel sweep, 20 bbl spacer, 10 bbl gel sweep, 20 bbl spacer. SD pump 17:55 - Thru sleeve #13. Pump 10 bbl gel sweep, 20 bbl spacer, 10 bbl gel sweep, 20 bbl spacer. SD pump 16:45 - Est. circulation @ 1.7 bpm & 4100 psi. Wash down to sleeve # 13. D/O sleeve #13. PU wt - 34K, Natural wt - 32, SO - 30K. Swivel: FS - 1000#, D/O - 1250#. 16:30 - Est. circulation @ 1.7 bpm & 4100 psi. SD pump. Release pressure & check for flow. No flow. Circulating plug holding. 16:15 - Safety meeting. - 02:30 - Currently Down can't get plug set in tubing 02:15- Calling pro wire line & Don Kauppi WL to see if they Have tools or Truck Available. 02:00 - out of hole with plug & top shear set went off, bottom set shear did not shear off. Superior WL does not have any other tools & Can get plug to set on surface but not down hole 00:50 - on depth 7195 feet & WH 3800 Psi & made several attempts to set could not get plug set 00:00 - RIH with 2nd plug - 22:00 - Circulating hole with Gel sweeps -RIH with pipe Circulate hole and Get ready to Tag #15 21:54 -Thru sleeve #14. D/O time 100 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweep. PU WT - 34K, Hang WT - 32K, SO WT - 32K. FCP - 2950 psi. +/- 1% sand. Increase Fr 1.25 -run pipe on pipe 20:14 - Tag sleeve #14. . Tag on joint # 388 (12000) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 1800#. 1.8 bpm @ 4150 psi. Casing - 3000 psi on 18/64 choke. BBL in/ 3.25 BBL out, Torque on unit 2700 19:30 - Resume DO Frac Sleeves - RIH with 6 jts tubing - Install 3rd R Nipple above Jt 284 at 11,874 Feet - 23:48 - Thru sleeve #15. D/O time 60 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweeps. 22:48 - Tag sleeve #15. Tag on joint # 394 (12142) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2000#. 1.8 bpm @ 4150 psi. Casing - 3000 psi on 18/64 choke. BBL in/ 3.25 BBL out, Torque on unit 2500 22:00 - Circulating hole with Gel sweeps -RIH with pipe Circulate hole and Get ready to Tag #15 - 19:00 -New RBS power swivel arrived hook up equipment to well. 1.5 HR down RBS Power Swivel 18:30 -PU tubing. Power swivel will not torque. Max torque 500#. Circulating well while down

Daily Cost: \$0

Cumulative Cost: \$1,231,797

7/5/2012 Day: 17

Completion

WWS #5 on 7/5/2012 - DO Frac Sleeves- Circulate Hole -Pull Tubing - pull tubing Plug - 07:00 - Pump Clean Cycle. Pumped 540 bbls slickwater clean cycle & 48 bbls of treated fresh water to flush slickwater out of tubing. - 6:30 - Turn over to Day shift -On location. George Kartchner 505-486-0146 Wash to PBDT @ 13155. Tag @ 13158 TM. 6:10 - Thru sleeve #19. D/O time 36 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweeps. 5:34 - Tag Last sleeve #19. Tag on joint # 419 (12971) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2500#. 1.7 bpm @ 3950 psi. Casing - 2850 psi on 18/64 choke. BBL in/ 3.5 BBL out, - 5:34 - Tag Last sleeve #19. Tag on joint # 419 (12971) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2400#. 1.7 bpm @ 3950 psi. Casing - 2850 psi on 18/64 choke. BBL in/ 3.5 BBL out, 4:55 - Thru sleeve #18. D/O time 40 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweeps. 4:15 - Tag sleeve #18. Tag on joint # 413 (12783) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2350#. 1.7 bpm @ 4100 psi. Casing - 3050 psi on 18/64 choke. BBL in/ 3.5 BBL out, No sand clear fluid - 3:45 - Thru sleeve #17. D/O time 50 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweeps. 2:55 - Tag sleeve #17. Tag on joint # 407 (12591) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2300#. 1.7 bpm @ 3950 psi. Casing - 2950 psi on 18/64 choke. BBL in/ 3.5 BBL out, No sand clear fluid PU WT - 34K, Hang WT - 32K, SO WT - 30K. FCP - 2950 psi. Increase Fr 1.25 -run pipe on pipe 1 gal/ M 1:55 - Thru sleeve #16. D/O time 30 minutes. Pump 10 bbl. sweep, 40 bbl. water, - 10 bbl. gell sweeps. 1:25 - Tag sleeve #16. Tag on joint # 401 (12397) D/O sleeve. 4K set on bit. Swivel: FS - 1000# D/O - 2100#. 1.7 bpm @ 3950 psi. Casing - 3100 psi on 18/64 choke. BBL in/ 3.25 BBL out, Torque on unit 2500 - Down switching out RBS Power Swivel Engine lost

oil seal blowing out oil RBS 1 Hr. Down - 00:00 & RIH 2nd attempt to set tubing 1.710 Tubing plug in R Nipple at EOT 7501 feet. 23:15 & Tubing pressure 0 & Bottom check valve holding & pump tubing Volume 30 bbl. 4100 psi SD Bleed off 0 pressure & 00:30 ,Getting ready to RIH with tubing plug to set in R nipple EOT 7501 Feet. - 23:00 & OOH with Plug Both sear pins were sheared and doubled & plug came back to surface 22:30 & Could not get tubing plug to set & current depth EOT 7547 Ft & POOH with plug 22:00 & Pressure test lubricator Equalize & Open TIW RIH to set new plug 1 jt above BHA at 7501 feet - 17:45 & Stop LD pipe. Bit @ 8216'. Laid down 166 jts. Tie back to double fast line. 15:00 & Bit @ 10,867'. Pulling 4K over pull. Stop POOH. RU Kelly hose & circulate @ 2 bpm & 4000 psi. Pump 50 bbls of slickwater. Pump 18 bbls of treated fresh water. 14:15 & SD pump. RD Kelly hose. POOH laying down 2 3/8: PH6-P110 work string. - 21:00 & WL OOH with Plug WH 3000 psi -load new tubing plug 20:00 & RIH and retrieve tubing plug set at 4600 feet - Latch onto plug at 2935 Feet & POOH 19:30 & WFD pressure test Lubricator - Equalize open WH 3,000 psi 19:00 & Superior WL Rigging up lubricator to well & pressure test 18:35 & POOH laying down 2 3/8: PH6-P110 work string. Total 190 Jts out of hole EOT 7535 feet. 18:00 & On location safety meeting with, Cudd, Western Well service, TTS, Pure, Superior WL.

Daily Cost: \$0

Cumulative Cost: \$1,288,007

7/6/2012 Day: 18

Completion

WWS #5 on 7/6/2012 - Set Tubing Plug - POOH with Tubing - Rig Up Snubbing unit pull tubing, POOH & LD work string - 01:00 & Plug Set RD WL unit & Performed 30 min Negative test - Good Test 00:20 & RIH and set 1.710 Tubing plug in R Nipple-EOT 7501 Ft. - Plug Set 00:00 & RIH 2nd attempt to set tubing 1.710 Tubing plug in R Nipple at EOT 7501 feet. - 04:00 - EOT 3865 Ft -125 jts in hole -pipe Heavy -Land tubing hanger & Rig down Rig Floor. 02:00 - Western Well Service WOR Pull Tubing from 7547 to 3865 Feet -119 Jts tubing 01:00 & After Negative test -Rig down WL unit and get rig ready to pull tubing - 0630 & Cameron OMGB tubing hanger leaking. Release pressure. Pull hanger. Seal missing. Remove hanger. Redress Seaboard Compression style hanger. Remove & redress TWCV. Packed off with sand. Install TWCV. Run Seaboard hanger. Hanger stacked out in BOP stack. Check BOP obstructions. Found chunk of rubber. Back flush BOP stack. Retrieved 2 large pieces of & O& ring seal. Run hanger. Hanger set. Run in lock down pins & jam nuts. 3 HOURS DOWN TIME TRYING TO LAND TUBING FOR PRESSURE TEST - 14:00 & Pressure test complete. Release pressure. 11:30 & Pressure test BOP stack. Hanger holding. Continue testing. - 18:30 & Turn well over to night shift, Bob Martin 505-320-2658 18:00 & Continue to LD work string. 16:15 & Start snubbing out at 2580'. 83 joints in hole. 14:30 - POOH laying down 2 3/8' PH6 work string. 125 joints remain in hole. 3000 psi on casing - 18:30 - Continue to snub 2 3/8" PH6 tubing from well. Pulled BHA into stack and close manual frac valve, Bleed off pressure from stack and break out and lay down 3.75' mill and BHA. All tools recovered. - 19:30 & Rig down Mt. State's snubbing unit and standby on location. - 21:30 & MIRU Perforator's lubricator, Test 250 psi low, 5,000 psi high, tested good. - 06:00 - Snubbing Unit Rigged Up & Start Pressure testing 04:30 - Rig UP Mountain States Snubbing unit Torque Bolts.

Daily Cost: \$0

Cumulative Cost: \$1,394,803

7/7/2012 Day: 19

Completion

WWS #5 on 7/7/2012 - Run production tubing. RD rig. POP well. - 06:00 & Continue to change out 2 3/8 pipe rams with 2 7/8 pipe rams. 04:00 & Change out 2 3/8 pipe rams with 2 7/8 pipe rams and test 250 psi low, 5,000 psi high, test good. - 07:45 & Good test. Release pressure. RD Weatherford pressure tester. 06:30 & Pressure test 2 7/8' pipe rams to 250 psi low for 5 minutes & 9800 psi high for 15 minutes. 06:00 - Turn well over to Day shift on location. George Kartchner 505-486-0146 - 12:30 & LD 2 jts tubing. PU: 1. 1 ea Tubing Pup

joint 2 7/8", 6.5#, EUE, 8rd, L-80: Length 10', OD 2.875", ID 2.441". 2. 1 joint - 2 7/8", 6.5#, EUE, 8rd, L-80 Tubing: Length 32.25', OD 2.875", ID 2.441". Install tubing hanger. 12:15 1/2 Check string weight: PU wt 44K, SO wt 44K, Hang wt 44K. Tag & latch production packer set @ 8274' KB. Slack off 10K to 34K. PU to 54K (10K over string weight), confirmed latched to packer. Slack off to 40K & unlatch from packer. 08:00 - Strap & PU 2 7/8", P-110, 6.5#, EUE production tubing. RIH as listed: 1. Baker 5 1/2" X 2 7/8" X 2.313' 10' on/off tool: Length 1.55', OD 5.5", ID 3.15" 2. 1 joint - 2 7/8", 6.5#, EUE, 8rd, L-80 Tubing: Length 32.24', OD 2.875", ID 2.441" 3. Baker 2 7/8" X 2 7/8" profile nipple: Length 0.83', OD 3.785", ID 2.205" 4. 257 jts - 2 7/8", 6.5#, EUE, 8rd, L-80 Tubing: Length 4.97', OD 2.875", ID 2.441" - 13:45 1/2 Current operation: Displacing hole w/ packer fluid. 12:45 1/2 RU and roll hole w/ 400 bbls of packer fluid consisting of fresh water, Biocide & corrosion inhibitor @ 2 bpm. - 16:45 1/2 SD pump. Pumped 350 bbls of packer fluid consisting of fresh water, Biocide & corrosion inhibitor @ 2.5 bpm. Land tubing. Latch packer & pull to 54K (10K over) to confirm attached to packer. Land tubing w/ Cameron pin activated hanger with 10K compression. Run in all lock down pins & tighten packing nuts. - 18:00 1/2 Continue to pressure test. Turn well over to night shift, James Bruno 817-995-2997 17:15 1/2 LD landing joint. Pressure test hanger to 250 psi low for 5 minutes & 9,900 psi high for 10 minutes. Pressure test casing to 250 psi low for 5 minutes & 5000 psi high for 10 minutes. 17:00 - Land tubing. Latch packer & pull to 54K (10K over) to confirm attached to packer. Land tubing w/ Cameron pin activated hanger with 10K compression. Run in all lock down pins & tighten packing nuts. - 00:00 1/2 RIH gauge ring, to liner top, RIH with Baker 7" El Hornet wire line set packer, Set packer at 8,274', Packer assembly ran as follows: 1. WLEG w/ pump out plug set @ 1500psi 2. Tubing Pup joint 2 7/8", 6.5#, EUE, 8rd, L-80: length 4.14', OD 2.875", ID 2.441" 3. Baker 2 7/8" X 2 7/8" profile nipple: length 1.14', OD 2.875", ID 2.205" 4. Tubing Pup joint 2 7/8", 6.5#, EUE, 8rd, L-80: length 4.97', OD 2.875", ID 2.441" 5. Baker 600-237 10K El Hornet W/L set packer: length 7.96', OD 6", ID 2.37" 6. Baker 2 7/8" X 2 7/8" profile nipple: length 1.25', OD 3.15", ID 2.31" POH with setting tool and all setting tools recovered, RDMO Perforator's. - 00:00 1/2 Continue to ND BOP stack. - 20:00 1/2 RDMO WWS rig #5. ND BOP stack 19:00 Finished testing the Hanger and the casing. Both test good. RD down rig.

Daily Cost: \$0

Cumulative Cost: \$1,475,882

7/8/2012 Day: 20

Completion

WWS #5 on 7/8/2012 - NU Cameron Production tree & pressure test. Put well on production. - 01:30- Pressured up the well and the pump plug blew at 4500 psi. Pumped 10 bbls flush. Shut in well with 3000 psi on it. Turned well over to production. Final Report - 00:30- Nipple up and test Cameron production tree. Back pressure valve would not hold. Pulled BPV and put in another one. Tested tree to 250 psi low to 10,000 psi high. Good test. Pulled BPV. RU rig pump and tested line to 5000 psi. good test. 00:00 1/2 Continue to ND BOP stack.

Daily Cost: \$0

Cumulative Cost: \$1,498,869

7/22/2012 Day: 21

Completion

Rigless on 7/22/2012 - Field Cost adjustment in DCR for Non-Captured Costs - WWS TK#2610,2657,2559, Zubiates Inv#1053,1023,1018, Usanco FT#15533,15676,15675,15517, ITL Inv.#721124, ACME TK #4008245, DrillComm Inv.#606489

Daily Cost: \$0

Cumulative Cost: \$1,551,409

7/29/2012 Day: 22

Completion

Rigless on 7/29/2012 - Capture final costs in DCR - cost adjustments in DCR for non-captured costs

Daily Cost: \$0

Cumulative Cost: \$1,558,209

8/5/2012 Day: 23

Completion

Rigless on 8/5/2012 - Capture final costs in DCR - cost adjustment in DCR for non-captured costs

Daily Cost: \$0

Cumulative Cost: \$1,561,729

8/19/2012 Day: 24

Completion

Rigless on 8/19/2012 - Capture final Costs in DCR - Capture final Costs in DCR

Daily Cost: \$0

Cumulative Cost: \$1,606,846

8/22/2012 Day: 25

Completion

Rigless on 8/22/2012 - RIH w/Pressure Gradient Survey' - 15:05 ė Well head Pressure 250 pressure. RU 1.5ė Jars w/1.923 Guide rig. RU WL Lubricator and pressure test lubricator. 15:10 ė Open well head and start in w/Guide rig 15:30 ė RIH w/ Jar and guide rig to 8,332ė FS. POOH w/guide rig 15:45 - RD Jars w/guide rig. 16:00 - RU & RIH W/1.5"x 6" Rope Socket, 1- 1.5" x 3' Snack bar w/1.5" Knuckle joint, 1- 1.5" x 3',, 1- 1.5" x 3' Snack bar w/1.5" x 2' Shock ass, w/1- 1.5' x 1-1/4" Pressure gradient Surveys log every 500' stops to 8,325' FS. 18:30 - POOH w/Pressure guiges and LD. - 19:00 - RDMO Superior WL - Safety meeting with Superior WL. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about running Pressure gradient surveys logs..

Daily Cost: \$0

Cumulative Cost: \$1,611,358

9/2/2012 Day: 26

Completion

Rigless on 9/2/2012 - Enter final costs in DCR - Enter final costs in DCR

Daily Cost: \$0

Cumulative Cost: \$1,660,689

9/4/2012 Day: 27

Completion

Nabors #1420 on 9/4/2012 - Spot Equipment on Location and Rig up to well -Remove production Tree and install BOP stack -Pressure Test SWIFN - Location secured ė SWIFN - On Location Hold safety Meeting with Nabors Rig Crew 1420 , Discuss PPE ,FRC, Smoking area, Line of fire ,3 point Contact . Pinch crush points, slips trips & falls Muster points, Housekeeping, suspended loads. Tag Lines communications Backing procedures and Spotters, Pressure Concerns, Environmental concerns, Wind Direction, Incident Reporting, Stop Job authority, Potential H2S - Tubing and Casing pressure 0 - Start to Move equipment onto Location ė Spot rig and begin rigging up Equipment to Well - Benco install Rig anchor ė Spot Rig Pump ėFlow-back tank waiting on Water and 2nd tank - Tanks spotted, Unload 3 loads of

production water, Tie rig pump to well. - Pump 50 BBL production Water into well on Vacuum & 0 pressure on well. - Install Tubing Check Valve & Remove production Tree & Install Bop and Bag , Well Head Installed ,Tested WH donut Had 30 K Compression - Well Head Installed ,Psi test 3 K psi with rig pump Door seals leaking on blind rams could not hold test - replace seals in morning - Pull Tubing Check Valve, Install TIW valve and Night Cap for Night

Daily Cost: \$0

Cumulative Cost: \$1,673,642

9/5/2012 Day: 28

Completion

Nabors #1420 on 9/5/2012 - Psi test BOP stack - Release on/off tool and TOO H w/ 2-7/8" tbg. - Secure location, Well, Waiting on Superior Gas lift Mandrill to get to location -Mandrills arrived in Grand Junction at 2 pm today & Superior are planning to be on location in the 6 AM in Morning -SWIFN - On Location Hold safety Meeting with Nabors Rig Crew 1420 , Discuss PPE ,FRC, Smoking area, Line of fire ,3 point Contact . Pinch crush points, slips trips & falls Muster points, Housekeeping, suspended loads. Tag Lines, communications Backing procedures and Spotters, Pressure Concerns, Environmental concerns, Wind Direction, Incident Reporting, Stop Job authority, Potential H2S - Nabors crew Replace Blind ram Door seals on Nabors BOP get ready for psi test - Well head and casing pressure 0-Pump 50 bbl. Produced water well on Vacuum. - Remove pup joint , TIW install Check Valve , PSI test BOP stack & Kill Valves, Blinds, Install Pup Joint test Pipes, Ann Bag, as per NFX Guidelines 250 low 5 min and 4000 psi for 10 Min all tested Good - Remove pup joint, Pull Check Valve & back off bolts on Donut- Install pup Joint - Pull 52K rotate 1/4 turn left Pull off Baker on off tool and Start TOO H with tubing stand back-Out of hole with 2 7/8 tubing string & X Nipple and Baker On- Off Tool .X Nipple needs replaced as well as 1 joint of tubing tread damage on both &.

Daily Cost: \$0

Cumulative Cost: \$1,682,467

9/6/2012 Day: 29

Completion

Nabors #1420 on 9/6/2012 - PU gas lift mandrels on 2-7/8" tbg per Superior design and TIH. Latch on/off @ 8,246" tool and land tbg w/ 10-15k compression on packer.ND BOPs and NU tree. RDMO WOR. - Pick up Baker On Off tool -1 JT tubing & X profile nipple with superior 2.31 Tubing Plug - On Location Hold safety Meeting with Nabors Rig Crew 1420,Superior , Discuss PPE ,FRC, Smoking area, Line of fire ,3 point Contact . Pinch crush points, slips trips & falls Muster points, Housekeeping, suspended loads. Tag Lines, communications Backing procedures, Spotters, Pressure Concerns, Environmental concerns, Wind Direction, Incident Reporting, Stop Job authority, Potential H2S - Plan is to put well on Production 09-07-2012- As per Superior Kick on well 350 - 400 let line out for 12 hrs before start to make adjustments..Location and well head secured - Turn well over to Production - RD Rig and release all vendors off location- Turn well over to Production - Install Check Valve -ND BOPs and NU tree, Weatherford test unit Torque and Pressure test- all Tested Good- remove Check Valve. - String WT 48K - Latch on/off @ 8,246" tool and land tbg w/ 10k compression, packer. Tighten pins - Pump 75 BBLs packer fluid down Tubing attempt to circulate -fluid went down hole well on Suck - Rig up Superior Wire Line and RIH 350 FT/Min LT180 Un set tubing Plug out of tubing & POOH with plug 350 Ft/Min LT 500-240 - Tag Packer and mark Joint to Space out with on off tool - RIH with 2 7/8 tubing and Superior Gas lift Mandrills RIH 255 Jts tubing and install 7 gas lift mandrills at Depths & (Tubing Detail updated on DCR) 2319 , 4063,5423,6490,7236,7722,8208 per superior design

Daily Cost: \$0

Cumulative Cost: \$1,710,239

9/16/2012 Day: 30

Completion

Nabors #1420 on 9/16/2012 - Capture Final Costs In DCR 9/16/12 - Capture Final Costs In DCR 9/16/12

Daily Cost: \$0

Cumulative Cost: \$1,729,899

9/30/2012 Day: 31

Completion

Nabors #1420 on 9/30/2012 - Enter final costs in DCR - Enter final costs in DCR

Daily Cost: \$0

Cumulative Cost: \$1,733,211

Pertinent Files: Go to File List

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**
ADDRESS: **RT. 3 BOX 3630**
MYTON, UT 84052

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
E	18332	18332	4301350923	LAMB 9-24-3-2	NESE	24	3S	2W	DUCHESNE		3/29/12
GR-WS BHL: ne se CHANGE FROM WSMVD FORMATION TO WSTC 11/9/12 CONFIDENTIAL											
ACTION B	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
E	18467	18467	4301351185	GRACE 3-16-3-3WH	NENW	16	3S	3W	DUCHESNE		9/6/12
BHL: se sw CHANGE FROM GRRV FORMATION TO <u>WSTC</u> 11/9/12 CONFIDENTIAL											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
E	18371	18371	4301350985	YERGENSEN 7-7-3-1W	SWNE	7	3S	1W	DUCHESNE	12/28/2011	3/3/12
CHANGED FROM WSTC TO GR-WS 11/9/2012 CONFIDENTIAL											

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

Tasha Robison
Signature
Tasha Robison
Production Clerk
11/08/12

NOTE: Use COMMENT section to explain why each Action Code was selected.

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NOV 08 2012

Div. of Oil, Gas & Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL
FORM 3160-4
NO. 10-40137
Expires July 31, 2011

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other								5. Lease Serial No. PATENTED	
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____								6. If Indian, Allottee or Tribe Name	
2. Name of Operator NEWFIELD EXPLORATION COMPANY								7. Unit or CA Agreement Name and No.	
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202				3a. Phone No. (include area code) (435) 646-3721				8. Lease Name and Well No. GRACE 3-16-3-3WH	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 326' FNL & 1488' FEL (NE/NW) SEC. 16, T3S, R3W At top prod. interval reported below 888' FNL & 1833' FWL (NE/NW) SEC. 16, T3S, R3W At total depth 700' FSL & 2231' FWL (SE/SW) SEC. 16, T3S, R3W BHL by HSM								9. AFI Well No. 43-013-51185	
14. Date Spudded 03/12/2012								10. Field and Pool or Exploratory WILDCAT	
15. Date T.D. Reached 06/03/2012								11. Sec., T., R., M., on Block and Survey or Area SEC. 16, T3S, R6W	
16. Date Completed 07/08/2012 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.								12. County or Parish DUCHESNE	
17. Elevations (DF, RKB, RT, GL)* 5390' GL 18' KB								13. State UT	
18. Total Depth: MD 13230' TVD 8863'				19. Plug Back T.D.: MD 13109' TVD 8864'				20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND								22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)	
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	14" H-40	37#	0	78'		100 CLASS G			
12-1/4"	9-5/8" K-55	36#	0	2491'		525 PRIMLITE		3151'	
8-3/4"	7" P-110	26#	0	9432'		195 PRIMLITE			
6-1/8"	4-1/2" P-110	13.5#	8274'	13155'		466 PRIMLITE			
						450 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 8303'	TA @ 8284'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Wasatch		9429'	13157'	9429-13157'		16.9" sq. in.	19	Ball Drop Sleeve	
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
9429-13157'		Frac w/ 143320 #'s 100 mesh and 988460 #'s of 30/50 white sand in 42096 bbls of Slickwater fluid in 20 stages							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/6/2012	9/16/12	24	→	255	841	62			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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OCT 24 2012

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (*Solid, used for fuel, vented, etc.*)
SOLD AND USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
WASATCH	9429'	13157'		GREEN RIVER EPA MAHOGANY BENCH TOP	4289' 5749'
				BLS	8286'
				wasatch	9159

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Jennifer Peatross

Title Production Technician

Signature

Date

10/12/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

NEWFIELD



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT

GRACE 3-16-3-3WH

GRACE 3-16-3-3WH

GRACE 3-16-3-3WH

Survey: Survey #1

Standard Survey Report

01 June, 2012



Weatherford®



Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
Site: GRACE 3-16-3-WH
Well: GRACE 3-16-3-WH
Wellbore: GRACE 3-16-3-WH
Design: GRACE 3-16-3-WH

Local Co-ordinate Reference: Well GRACE 3-16-3-WH
TVD Reference: WELL @ 5407.80ft (PIONEER 68)
MD Reference: WELL @ 5407.80ft (PIONEER 68)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		GRACE 3-16-3-3WH			
Site Position:		Northing:	7,254,388.80ft	Latitude:	40° 13' 41.830 N
From:	Lat/Long	Easting:	1,994,435.85ft	Longitude:	110° 13' 55.230 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.81 °

Well	GRACE 3-16-3-WH					
Well Position	+N/-S	0.00 ft	Northing:	7,254,388.80 ft	Latitude:	40° 13' 41.830 N
	+E/-W	0.00 ft	Easting:	1,994,435.85 ft	Longitude:	110° 13' 55.230 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,389.80 ft	

Wellbore	GRACE 3-16-3-WH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	5/1/2012	11.34	65.87	52,204

Design	GRACE 3-16-3-WH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	172.35

Survey Program	Date 6/1/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
282.00	13,230.00	Survey #1 (GRACE 3-16-3-WH)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282.00	0.31	236.61	282.00	-0.42	-0.64	0.33	0.11	0.11	0.00
403.00	0.44	190.70	403.00	-1.06	-1.00	0.91	0.26	0.11	-37.94
494.00	0.85	197.60	493.99	-2.04	-1.27	1.86	0.46	0.45	7.58
620.00	1.17	205.13	619.97	-4.10	-2.09	3.78	0.27	0.25	5.98
744.00	1.67	216.24	743.93	-6.70	-3.70	6.15	0.46	0.40	8.96
868.00	0.07	175.02	867.91	-8.24	-4.76	7.53	1.30	-1.29	-33.24
994.00	0.14	47.11	993.91	-8.21	-4.64	7.52	0.15	0.06	-101.52
1,119.00	0.28	79.59	1,118.91	-8.05	-4.23	7.41	0.14	0.11	25.98
1,245.00	0.29	94.37	1,244.91	-8.02	-3.61	7.46	0.06	0.01	11.73
1,369.00	0.31	118.32	1,368.91	-8.20	-3.00	7.73	0.10	0.02	19.31
1,493.00	0.40	120.13	1,492.91	-8.58	-2.33	8.19	0.07	0.07	1.46
1,618.00	0.53	139.92	1,617.90	-9.24	-1.58	8.94	0.16	0.10	15.83



Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
Site: GRACE 3-16-3-WH
Well: GRACE 3-16-3-WH
Wellbore: GRACE 3-16-3-WH
Design: GRACE 3-16-3-WH

Local Co-ordinate Reference: Well GRACE 3-16-3-WH
TVD Reference: WELL @ 5407.80ft (PIONEER 68)
MD Reference: WELL @ 5407.80ft (PIONEER 68)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,742.00	0.70	143.92	1,741.90	-10.29	-0.77	10.09	0.14	0.14	3.23
1,866.00	0.80	119.22	1,865.89	-11.32	0.44	11.28	0.27	0.08	-19.92
1,991.00	0.64	78.69	1,990.88	-11.61	1.88	11.76	0.42	-0.13	-32.42
2,115.00	0.53	84.00	2,114.87	-11.42	3.13	11.73	0.10	-0.09	4.28
2,240.00	0.74	104.70	2,239.86	-11.56	4.49	12.06	0.25	0.17	16.56
2,365.00	1.21	136.09	2,364.85	-12.72	6.18	13.43	0.56	0.38	25.11
2,440.00	1.16	127.50	2,439.83	-13.75	7.33	14.60	0.25	-0.07	-11.45
2,573.00	0.98	129.31	2,572.81	-15.29	9.28	16.39	0.14	-0.14	1.36
2,698.00	1.05	133.34	2,697.79	-16.75	10.94	18.06	0.08	0.06	3.22
2,825.00	1.69	327.05	2,824.77	-15.98	10.77	17.27	2.14	0.50	-130.94
2,950.00	1.69	331.33	2,949.72	-12.82	8.88	13.88	0.10	0.00	3.42
3,073.00	1.68	326.95	3,072.66	-9.71	7.03	10.56	0.10	-0.01	-3.56
3,198.00	1.73	325.85	3,197.61	-6.62	4.97	7.22	0.05	0.04	-0.88
3,322.00	1.50	325.33	3,321.56	-3.73	3.00	4.10	0.19	-0.19	-0.42
3,446.00	1.28	318.17	3,445.52	-1.36	1.15	1.51	0.23	-0.18	-5.77
3,570.00	1.09	298.06	3,569.50	0.22	-0.81	-0.33	0.37	-0.15	-16.22
3,694.00	0.94	286.05	3,693.48	1.06	-2.83	-1.43	0.21	-0.12	-9.69
3,819.00	1.37	278.61	3,818.45	1.57	-5.30	-2.26	0.36	0.34	-5.95
3,943.00	0.22	54.04	3,942.44	1.93	-6.57	-2.78	1.24	-0.93	109.22
4,068.00	0.40	161.03	4,067.44	1.66	-6.23	-2.47	0.41	0.14	85.59
4,193.00	0.74	187.28	4,192.43	0.44	-6.19	-1.26	0.34	0.27	21.00
4,317.00	1.35	186.98	4,316.41	-1.80	-6.47	0.93	0.49	0.49	-0.24
4,442.00	1.04	168.80	4,441.39	-4.38	-6.43	3.48	0.39	-0.25	-14.54
4,567.00	0.80	207.71	4,566.37	-6.26	-6.62	5.33	0.52	-0.19	31.13
4,692.00	1.65	201.90	4,691.34	-8.70	-7.69	7.60	0.69	0.68	-4.65
4,817.00	0.28	155.12	4,816.32	-10.65	-8.24	9.46	1.18	-1.10	-37.42
4,943.00	0.91	190.59	4,942.31	-11.91	-8.29	10.71	0.56	0.50	28.15
5,066.00	1.09	58.73	5,065.31	-12.27	-7.47	11.16	1.49	0.15	-107.20
5,191.00	0.20	103.67	5,190.30	-11.70	-6.24	10.77	0.77	-0.71	35.95
5,316.00	0.29	36.32	5,315.30	-11.50	-5.84	10.62	0.23	0.07	-53.88
5,439.00	0.38	140.23	5,438.30	-11.56	-5.40	10.74	0.43	0.07	84.48
5,563.00	0.69	15.66	5,562.29	-11.16	-4.93	10.40	0.77	0.25	-100.46
5,687.00	0.16	336.06	5,686.29	-10.28	-4.80	9.55	0.46	-0.43	-31.94
5,811.00	0.51	193.58	5,810.29	-10.66	-5.00	9.90	0.52	0.28	-114.90
5,935.00	0.16	239.41	5,934.29	-11.28	-5.28	10.48	0.33	-0.28	36.96
6,059.00	0.59	1.30	6,058.28	-10.73	-5.41	9.92	0.55	0.35	98.30
6,184.00	0.28	286.15	6,183.28	-10.01	-5.69	9.16	0.47	-0.25	-60.12
6,309.00	0.76	230.13	6,308.28	-10.45	-6.62	9.48	0.52	0.38	-44.82
6,433.00	0.43	10.53	6,432.27	-10.52	-7.17	9.47	0.91	-0.27	113.23
6,557.00	0.29	239.69	6,556.27	-10.22	-7.35	9.15	0.53	-0.11	-105.52
6,682.00	0.70	21.13	6,681.27	-9.67	-7.35	8.61	0.76	0.33	113.15
6,806.00	0.30	135.71	6,805.26	-9.20	-6.85	8.20	0.70	-0.32	92.40
6,931.00	0.91	174.68	6,930.26	-10.42	-6.53	9.46	0.56	0.49	31.18
7,055.00	1.19	117.69	7,054.24	-12.00	-5.30	11.18	0.83	0.23	-45.96
7,179.00	1.59	149.37	7,178.20	-14.08	-3.28	13.51	0.69	0.32	25.55
7,303.00	1.75	137.58	7,302.15	-16.95	-1.13	16.65	0.30	0.13	-9.51
7,427.00	0.82	141.82	7,426.12	-19.05	0.70	18.97	0.75	-0.75	3.42
7,551.00	0.71	177.77	7,550.11	-20.51	1.27	20.50	0.39	-0.09	28.99
7,675.00	0.44	196.99	7,674.10	-21.74	1.16	21.70	0.26	-0.22	15.50
7,799.00	0.80	158.30	7,798.10	-23.00	1.35	22.97	0.43	0.29	-31.20
7,923.00	0.73	52.36	7,922.09	-23.32	2.29	23.42	0.99	-0.06	-85.44
8,048.00	0.99	110.28	8,047.08	-23.21	3.93	23.52	0.69	0.21	46.34
8,172.00	1.12	128.54	8,171.06	-24.33	5.89	24.90	0.29	0.10	14.73
8,297.00	1.65	140.10	8,296.02	-26.47	8.00	27.30	0.48	0.42	9.25



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Design: GRACE 3-16-3-WH

Local Co-ordinate Reference: Well GRACE 3-16-3-WH
TVD Reference: WELL @ 5407.80ft (PIONEER 68)
MD Reference: WELL @ 5407.80ft (PIONEER 68)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,440.00	2.95	163.75	8,438.91	-31.59	10.35	32.68	1.11	0.91	16.54
8,451.00	2.89	161.70	8,449.89	-32.12	10.51	33.24	1.09	-0.55	-18.64
8,482.00	2.99	159.33	8,480.85	-33.62	11.05	34.79	0.51	0.32	-7.65
8,513.00	4.29	145.49	8,511.79	-35.33	11.99	36.61	5.03	4.19	-44.65
8,544.00	7.53	136.21	8,542.62	-37.76	14.05	39.29	10.86	10.45	-29.94
8,575.00	10.83	131.94	8,573.22	-41.17	17.62	43.15	10.86	10.65	-13.77
8,606.00	13.87	132.86	8,603.50	-45.64	22.51	48.23	9.83	9.81	2.97
8,637.00	16.48	134.56	8,633.41	-51.26	28.37	54.58	8.54	8.42	5.48
8,668.00	17.96	137.22	8,663.02	-57.85	34.75	61.96	5.41	4.77	8.58
8,699.00	20.26	138.45	8,692.31	-65.38	41.56	70.33	7.53	7.42	3.97
8,730.00	23.04	139.14	8,721.12	-73.98	49.09	79.86	9.01	8.97	2.23
8,761.00	25.55	140.81	8,749.38	-83.75	57.28	90.63	8.39	8.10	5.39
8,792.00	27.91	141.31	8,777.06	-94.60	66.04	102.55	7.65	7.61	1.61
8,824.00	30.82	141.13	8,804.95	-106.83	75.87	115.98	9.10	9.09	-0.56
8,855.00	34.56	140.81	8,831.03	-119.83	86.42	130.27	12.08	12.06	-1.03
8,886.00	38.12	140.69	8,856.00	-134.06	98.04	145.91	11.49	11.48	-0.39
8,917.00	41.90	141.49	8,879.74	-149.57	110.55	162.95	12.31	12.19	2.58
8,948.00	45.63	143.19	8,902.12	-166.54	123.64	181.52	12.62	12.03	5.48
8,979.00	49.61	144.32	8,923.02	-185.01	137.17	201.62	13.12	12.84	3.65
9,010.00	53.56	145.51	8,942.27	-204.89	151.12	223.18	13.09	12.74	3.84
9,042.00	57.23	146.93	8,960.45	-226.78	165.76	246.82	12.04	11.47	4.44
9,073.00	61.15	148.00	8,976.32	-249.22	180.07	270.97	12.99	12.65	3.45
9,104.00	64.00	149.57	8,990.60	-272.75	194.32	296.19	10.23	9.19	5.06
9,136.00	67.32	150.01	9,003.78	-297.95	208.99	323.11	10.45	10.38	1.38
9,167.00	70.92	150.67	9,014.83	-323.11	223.32	349.96	11.78	11.61	2.13
9,198.00	74.36	151.13	9,024.08	-348.96	237.70	377.49	11.19	11.10	1.48
9,229.00	77.23	152.35	9,031.69	-375.43	251.93	405.62	10.01	9.26	3.94
9,261.00	79.32	152.90	9,038.19	-403.25	266.34	435.11	6.74	6.53	1.72
9,292.00	81.58	153.32	9,043.33	-430.52	280.16	463.97	7.41	7.29	1.35
9,323.00	83.90	153.55	9,047.25	-458.02	293.91	493.06	7.52	7.48	0.74
9,354.00	86.57	153.30	9,049.82	-485.65	307.73	522.28	8.65	8.61	-0.81
9,385.00	88.18	153.61	9,051.24	-513.35	321.57	551.58	5.29	5.19	1.00
9,439.00	88.52	153.85	9,052.80	-561.75	345.46	602.73	0.77	0.63	0.44
9,502.00	89.57	152.55	9,053.85	-617.97	373.86	662.23	2.65	1.67	-2.06
9,534.00	91.11	153.32	9,053.66	-646.47	388.42	692.41	5.38	4.81	2.41
9,566.00	92.84	153.51	9,052.56	-675.07	402.73	722.66	5.44	5.41	0.59
9,597.00	94.13	153.31	9,050.67	-702.74	416.58	751.92	4.21	4.16	-0.65
9,630.00	94.20	153.66	9,048.28	-732.19	431.27	783.07	1.08	0.21	1.06
9,693.00	94.32	154.93	9,043.60	-788.79	458.52	842.80	2.02	0.19	2.02
9,724.00	90.74	152.23	9,042.23	-816.52	472.30	872.11	14.46	-11.55	-8.71
9,756.00	90.93	152.58	9,041.76	-844.88	487.12	902.19	1.24	0.59	1.09
9,819.00	92.59	156.19	9,039.82	-901.65	514.34	962.08	6.30	2.63	5.73
9,882.00	92.71	155.66	9,036.91	-959.11	540.01	1,022.44	0.86	0.19	-0.84
9,945.00	93.08	158.44	9,033.73	-1,017.04	564.55	1,083.12	4.45	0.59	4.41
10,009.00	92.78	160.38	9,030.46	-1,076.87	587.02	1,145.41	3.06	-0.47	3.03
10,072.00	92.73	163.66	9,027.43	-1,136.72	606.44	1,207.31	5.20	-0.08	5.21
10,136.00	93.00	167.72	9,024.23	-1,198.64	622.24	1,270.79	6.35	0.42	6.34
10,199.00	93.20	169.11	9,020.82	-1,260.26	634.87	1,333.54	2.23	0.32	2.21
10,262.00	93.77	169.35	9,016.99	-1,322.04	646.62	1,396.33	0.98	0.90	0.38
10,326.00	92.90	170.15	9,013.27	-1,384.91	657.99	1,460.16	1.85	-1.36	1.25
10,389.00	93.58	171.76	9,009.71	-1,447.02	667.88	1,523.04	2.77	1.08	2.56
10,453.00	93.88	174.77	9,005.54	-1,510.44	675.37	1,586.89	4.72	0.47	4.70
10,516.00	92.96	176.11	9,001.79	-1,573.13	680.37	1,649.68	2.58	-1.46	2.13
10,580.00	92.59	176.24	8,998.69	-1,636.91	684.63	1,713.46	0.61	-0.58	0.20



Weatherford International Ltd.
Survey Report



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Design: GRACE 3-16-3-WH

Local Co-ordinate Reference: Well GRACE 3-16-3-WH
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MD Reference: WELL @ 5407.80ft (PIONEER 68)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,643.00	92.84	175.30	8,995.70	-1,699.67	689.28	1,776.28	1.54	0.40	-1.49
10,706.00	93.64	175.97	8,992.14	-1,762.38	694.06	1,839.07	1.66	1.27	1.06
10,769.00	93.52	177.85	8,988.21	-1,825.17	697.45	1,901.75	2.98	-0.19	2.98
10,833.00	93.20	181.14	8,984.46	-1,889.04	698.01	1,965.14	5.16	-0.50	5.14
10,896.00	93.45	179.47	8,980.80	-1,951.94	697.68	2,027.42	2.68	0.40	-2.65
10,959.00	93.44	178.12	8,977.02	-2,014.81	699.00	2,089.91	2.14	-0.02	-2.14
11,023.00	93.65	178.06	8,973.06	-2,078.65	701.13	2,153.47	0.34	0.33	-0.09
11,086.00	93.61	178.65	8,969.07	-2,141.50	702.94	2,216.00	0.94	-0.06	0.94
11,149.00	92.22	178.49	8,965.87	-2,204.39	704.51	2,278.54	2.22	-2.21	-0.25
11,213.00	93.46	182.17	8,962.69	-2,268.30	704.14	2,341.83	6.06	1.94	5.75
11,276.00	93.09	181.68	8,959.09	-2,331.16	702.03	2,403.85	0.97	-0.59	-0.78
11,340.00	92.90	181.85	8,955.75	-2,395.04	700.06	2,466.91	0.40	-0.30	0.27
11,403.00	92.90	183.83	8,952.56	-2,457.88	696.94	2,528.77	3.14	0.00	3.14
11,467.00	92.34	181.26	8,949.64	-2,521.75	694.10	2,591.69	4.11	-0.88	-4.02
11,530.00	92.90	180.01	8,946.76	-2,584.68	693.41	2,653.97	2.17	0.89	-1.98
11,594.00	92.91	180.41	8,943.51	-2,648.59	693.17	2,717.28	0.62	0.02	0.63
11,657.00	92.96	179.58	8,940.29	-2,711.51	693.18	2,779.64	1.32	0.08	-1.32
11,720.00	92.71	179.46	8,937.17	-2,774.43	693.70	2,842.07	0.44	-0.40	-0.19
11,783.00	92.77	178.87	8,934.16	-2,837.35	694.62	2,904.56	0.94	0.10	-0.94
11,847.00	92.16	177.84	8,931.41	-2,901.27	696.46	2,968.14	1.87	-0.95	-1.61
11,910.00	93.09	179.65	8,928.52	-2,964.18	697.83	3,030.68	3.23	1.48	2.87
11,974.00	91.85	179.72	8,925.76	-3,028.12	698.19	3,094.10	1.94	-1.94	0.11
12,037.00	91.79	179.53	8,923.76	-3,091.09	698.60	3,156.56	0.32	-0.10	-0.30
12,100.00	92.90	180.05	8,921.19	-3,154.03	698.83	3,218.98	1.95	1.76	0.83
12,163.00	93.64	179.83	8,917.59	-3,216.93	698.90	3,281.32	1.23	1.17	-0.35
12,226.00	94.33	179.49	8,913.21	-3,279.77	699.27	3,343.66	1.22	1.10	-0.54
12,289.00	93.79	180.06	8,908.75	-3,342.62	699.51	3,405.98	1.24	-0.86	0.90
12,352.00	93.02	177.82	8,905.01	-3,405.49	700.68	3,468.45	3.75	-1.22	-3.56
12,415.00	93.44	176.35	8,901.46	-3,468.31	703.88	3,531.13	2.42	0.67	-2.33
12,478.00	93.34	176.68	8,897.74	-3,531.08	707.70	3,593.85	0.55	-0.16	0.52
12,541.00	92.59	178.34	8,894.48	-3,593.93	710.43	3,656.51	2.89	-1.19	2.63
12,604.00	93.52	177.89	8,891.12	-3,656.81	712.50	3,719.10	1.64	1.48	-0.71
12,668.00	91.54	175.89	8,888.29	-3,720.65	715.97	3,782.83	4.40	-3.09	-3.13
12,731.00	92.03	176.53	8,886.33	-3,783.48	720.13	3,845.66	1.28	0.78	1.02
12,795.00	92.53	177.00	8,883.79	-3,847.32	723.74	3,909.42	1.07	0.78	0.73
12,858.00	91.59	177.94	8,881.52	-3,910.22	726.52	3,972.13	2.11	-1.49	1.49
12,921.00	92.10	178.04	8,879.49	-3,973.15	728.73	4,034.79	0.82	0.81	0.16
12,985.00	93.71	177.80	8,876.25	-4,037.02	731.05	4,098.40	2.54	2.52	-0.38
13,049.00	94.08	178.11	8,871.90	-4,100.83	733.33	4,161.95	0.75	0.58	0.48
13,112.00	94.51	178.35	8,867.18	-4,163.63	735.27	4,224.44	0.78	0.68	0.38
LAST SVY									
13,170.00	91.48	175.33	8,864.15	-4,221.45	738.46	4,282.17	7.37	-5.22	-5.21
PROJ SVY - PBHL GRACE 3-16-3-WH									
13,230.00	91.48	175.33	8,862.60	-4,281.23	743.35	4,342.07	0.00	0.00	0.00

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
13,170.00	8,864.15	-4,221.45	738.46	LAST SVY
13,230.00	8,862.60	-4,281.23	743.35	PROJ SVY



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Survey Report



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Checked By: _____	Approved By: _____	Date: _____
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202		8. WELL NAME and NUMBER: GRACE 3-16-3-WH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0326 FNL 1488 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 16 Township: 03.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013511850000
PHONE NUMBER: 303 382-4443 Ext		9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH
COUNTY: DUCHESNE		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

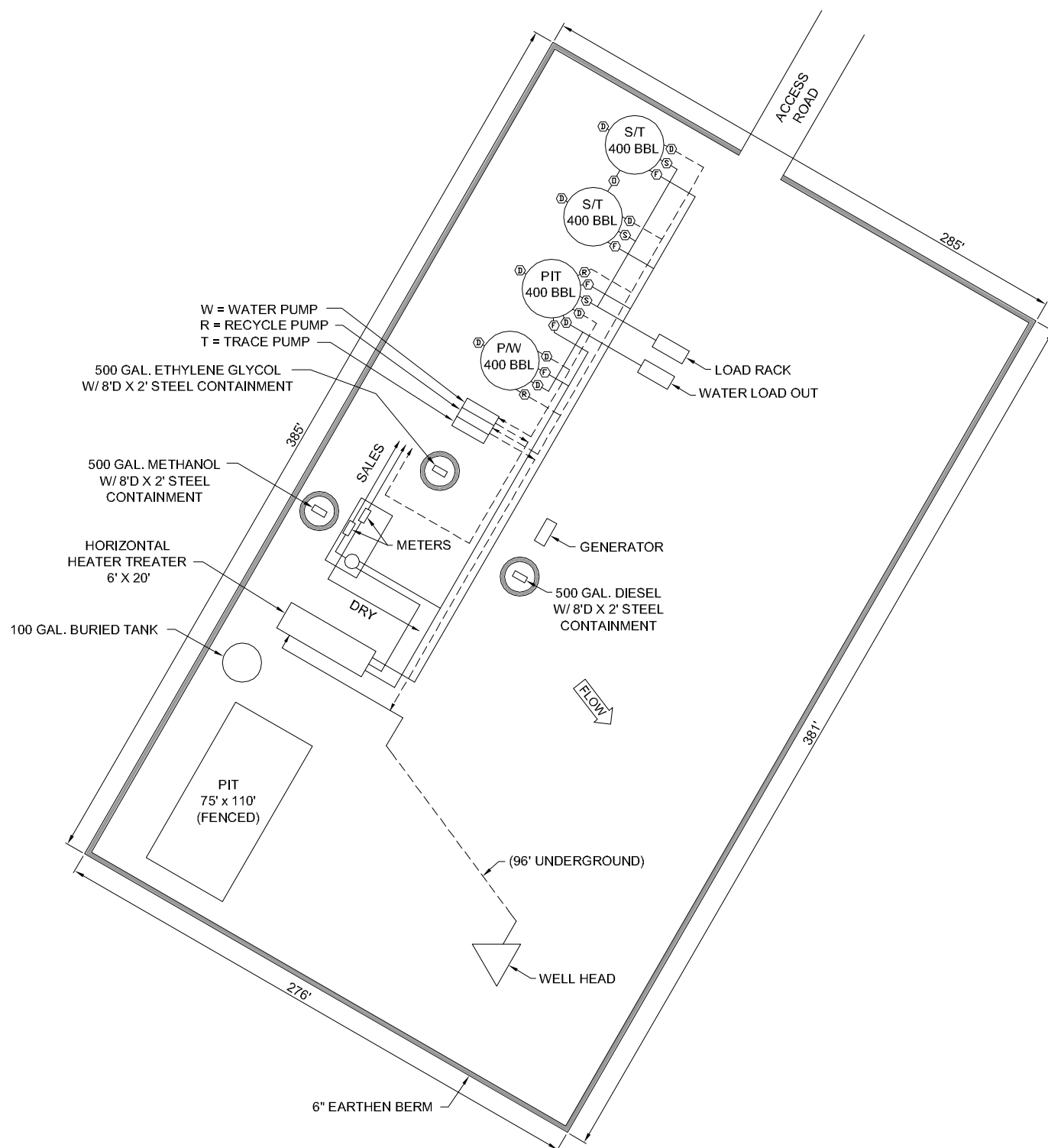
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/25/2013	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS
	<input type="checkbox"/> CHANGE WELL STATUS
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
	<input type="checkbox"/> DEEPEN
	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE
	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME
	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF
	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION
	<input checked="" type="checkbox"/> OTHER
	OTHER: Site Facility/Site Security

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SEE ATTACHED REVISED SITE FACILITY DIAGRAM

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 July 01, 2013

NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician
SIGNATURE N/A	DATE 6/25/2013	



POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION

Valve	Line Purpose	Position	Seal Installed
D	Drain	Closed	Yes
F	Oil, Gas, Water	Open	No
O	Overflow	Open/Closed	No
V	Vent	Open	No
R	Recycle	Closed	Yes
B	Blowdown	Open/Closed	No
S	Sales	Closed	Yes

Valve Type
D - Drain Valve
F - Flow Valve
O - Overflow
V - Vent
R - Recycle
B - Blow Down
S - Sales Valve

Federal Lease #:

This lease is subject to the
Site Security Plan for:
Newfield Exploration Company
19 East Pine Street
Pinedale, WY 82941



GRACE 3-16-3-3WH

Newfield Exploration Company
NENW Sec 16, T3S, R3W
Duchesne County, UT

POSITION OF VALVES AND USE OF SEALS DURING WATER DRAIN

Valve	Line Purpose	Position	Seal Installed
D	Drain	Closed	Yes
F	Oil, Gas, Water	Closed	Yes
O	Overflow	Closed	Yes
V	Vent	Open	No
R	Recycle	Closed	Yes
B	Blowdown	Closed	No
S	Sales	Open	No

POSITION OF VALVES AND USE OF SEALS DURING WATER DRAIN

Valve	Line Purpose	Position	Seal Installed
D	Drain	Open	No
F	Oil, Gas, Water	Closed	No
O	Overflow	Closed	No
V	Vent	Open	No
R	Recycle	Closed	Yes
B	Blowdown	Closed	No
S	Sales	Closed	Yes

M.G.

AUG 2012



Note: This drawing
represents approximate
sizes and distances.
Underground pipeline
locations are also
approximated.

RECEIVED: Jun. 25, 2013